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|                                                     |    |
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|                                                  |    |
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|                                                             |    |
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## Micro Plastics Edgecards

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|                                                            |     |
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|                                                 |     |
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Sullins Edgecards

MICROPLASTICS  
**SULLINS**

## GENERAL SPECIFICATIONS

### RoHS COMPLIANT



RoHS  
COMPLIANT

All parts are currently manufactured with recommended materials to meet RoHS standards. All contacts have 50u" of nickel underplating, and a large selection of plating options: Pure tin matte, overall gold, or selective gold plating. For complete part number information or operating/processing temperature parameters, visit the RoHS section of our website, or refer to page 5 of this catalog.

### MATERIALS

#### Insulator

- PBT, Valox\*, Thermoplastic Polyester
- PPS, Ryton\*, Polyphenylene Sulfide
- PEEK, Polyetheretherketone
- PA9T, High Temperature Polyamide
- Other materials available. Consult Factory

#### Contacts

Phosphor Bronze (Standard), Beryllium Copper, Beryllium Nickel, Spinodal\*\*, Brass

#### Plating

Gold and/or Tin over .000050" Nickel Underplate, Lead Free

**UL/CUL File Number:** E64287

**Cage Code:** 54453

### MECHANICAL

Board Insertion Force 16 oz Maximum per contact pair using .062"[1.58mm] thick steel test blade

Board Withdrawal Force 1 oz Minimum per contact pair using .062"[1.58mm] thick steel test blade

**Special Insertion/Withdrawal forces available upon request**

### ELECTRICAL

Insulation Resistance: 5,000 Mega Ohm

Dielectric Withstanding Voltage

|                  |            |               |               |               |               |               |
|------------------|------------|---------------|---------------|---------------|---------------|---------------|
| Contact Centers: | .039"[1mm] | .050"[1.27mm] | .100"[2.54mm] | .125"[3.18mm] | .150"[3.81mm] | .156"[3.96mm] |
| Voltage:         | 125 VDC    | 250 VDC       | 600 VDC       | 800 VDC       | 1500 VDC      | 1800 VDC      |
|                  | 225 VAC    | 300 VAC       | 750 VAC       | 750 VAC       | 900 VAC       | 950 VAC       |

Current Rating: 1 to 5 amp per contact

Voltage Drop: 30 milli volt at rated current

Contact Resistance: 30 milli ohm maximum at rated current

### ENVIRONMENTAL

Solvent resistance: Perchloroethylene, Freon 113, Freon 11, Trichloroethylene

|                                                                                    |      |                       |                     |                |
|------------------------------------------------------------------------------------|------|-----------------------|---------------------|----------------|
| Operating Temperature:                                                             | PBT  | -65° to +130°C        | Phosphor Bronze     | -65° to +125°C |
|                                                                                    | PPS  | -65° to +200/220°C*** | Beryllium Copper    | -65° to +150°C |
|                                                                                    | PEEK | -65° to +250°C***     | Spinodal**          | -65° to +200°C |
|                                                                                    | PA9T | -65° to +150°C        | Beryllium Nickel*** | -65° to +300°C |
| (Continuous temperatures, higher for short duration. Contact Factory for details.) |      |                       |                     |                |

\* Or equivalent.

\*\* Consult factory for special soldering guidelines.

\*\*\* Consult factory.



## PART NUMBER OPTIONS

|                                                                                                                                           |  | E | B | M | 43 | D | RT | H | - Sxxx |                                                                 |  |
|-------------------------------------------------------------------------------------------------------------------------------------------|--|---|---|---|----|---|----|---|--------|-----------------------------------------------------------------|--|
| <b>MATERIALS (Insulator/Contact)</b>                                                                                                      |  |   |   |   |    |   |    |   |        | <b>MODIFICATION CODE</b> (Consult Factory)<br>OMIT FOR STANDARD |  |
| E = PBT & Phosphor Bronze<br>OPERATING TEMPERATURE: -65°C to +125°C<br>PROCESSING TEMP: 260°C FOR 10 sec. MAX.<br>(230°C, 30 sec.)        |  |   |   |   |    |   |    |   |        | <b>MOUNTING STYLE</b>                                           |  |
| R = PPS & Phosphor Bronze<br>OPERATING TEMPERATURE: -65°C to +125°C<br>PROCESSING TEMPERATURE: 260°C FOR 120 sec. MAX.                    |  |   |   |   |    |   |    |   |        | H = Clearance Holes, .125" [3.18mm] Dia                         |  |
| G = PA9T & PHOSPHOR BRONZE<br>OPERATING TEMPERATURE: -65°C to +125°C<br>PROCESSING TEMPERATURE: 260° FOR 120 sec. MAX.                    |  |   |   |   |    |   |    |   |        | N = No Mounting                                                 |  |
| H = PBT & Beryllium Copper<br>OPERATING TEMPERATURE: -65°C to +125°C<br>PROCESSING TEMP: 260°C FOR 10 sec. MAX.<br>(230°C, 30 sec.)       |  |   |   |   |    |   |    |   |        | S = Side Mounting, .125" [3.18mm] Dia                           |  |
| A = PPS & Beryllium Copper<br>OPERATING TEMPERATURE: -65°C to +150°C<br>PROCESSING TEMPERATURE: 260°C FOR 120 sec. MAX.                   |  |   |   |   |    |   |    |   |        | I = #4-40 Threaded Insert                                       |  |
| J = PA9T & Beryllium Copper<br>OPERATING TEMPERATURE: -65°C to +150°C<br>PROCESSING TEMPERATURE: 260°C FOR 120 sec. MAX.                  |  |   |   |   |    |   |    |   |        | F = Floating Bobbin                                             |  |
| M = White PA9T/Beryllium Copper<br>OPERATING TEMPERATURE: -65°C to +150°C                                                                 |  |   |   |   |    |   |    |   |        | W = .430" Ears, Flush Mounting, .125" [3.18mm] Dia              |  |
| F = PPS & Spinodal (Consult Factory)<br>OPERATING TEMPERATURE: -65°C to +200°C                                                            |  |   |   |   |    |   |    |   |        | D = .250" Ears, Flush Mounting, .125" [3.18mm] Dia              |  |
| C = PPS & Beryllium Nickel (Consult Factory)<br>OPERATING TEMPERATURE: -65°C to +200°C<br>PROCESSING TEMPERATURE: 260°C FOR 120 sec. MAX. |  |   |   |   |    |   |    |   |        | P = Clearance Holes, .142" [3.61mm] Dia.                        |  |
| W = PEEK & Beryllium Nickel (Consult Factory)<br>OPERATING TEMPERATURE: -65°C to +250°C                                                   |  |   |   |   |    |   |    |   |        | B = Open Card Slot                                              |  |
| N = Nylon 6T & Phosphor Bronze<br>OPERATING TEMPERATURE: -10°C to +85°C<br>PROCESSING TEMPERATURE: 260°C for 10 sec. MAX.                 |  |   |   |   |    |   |    |   |        | X = .430" Ears, Flush Mounting, #4-40 Threaded Insert           |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | T = .250" Ears, Flush Mounting, #4-40 Threaded Insert           |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | Q = Straddle Mount                                              |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | Z = .250" Ears, Flush, Side Mounting                            |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | <b>TERMINATION TYPE</b>                                         |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | <b>Card Extender</b>                                            |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | HR = .050" & 1mm Contact Centers                                |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | KR,KN = .025" [.64mm] Square Post, Cantilever                   |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | <b>Dip Solder - High Profile</b>                                |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | RS = .025 [.64mm] Square Tail, Loop Bellows                     |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | CS,SC = .025" [.64mm] Square Tail, Hairpin Bellows              |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | TK = .026" [.66mm] Round Tail, Loop Bellows                     |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | CT,CW = .015" x .025" Tail, Hairpin Bellows                     |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | CK = .026" [.66mm] Round Tail, Loop Bellows                     |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | HH = 1mm [.039"] Contact Centers                                |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | HH,HL,HN = .050" Contact Centers                                |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | KS,KD = .025" [.64mm] Square Post, Cantilever                   |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | <b>Dip Solder - Low Profile</b>                                 |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | SX,SU = Crimp to Center for Single Readout                      |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | RT,RK,RY = .140" [3.56mm] Row Spacing                           |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | RX,RF,RU,RP = .200" [5.08mm] Row Spacing                        |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | RJ = .250" [6.35mm] Row Spacing                                 |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | <b>Eyelet</b>                                                   |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | RE,TE,SE = Eyelet Tail                                          |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | <b>Press Fit</b>                                                |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | .200" [5.08mm] Row Spacing .100" [2.54mm] Row Spacing           |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | JB = .025" [.64mm] Sq. Post JF = .025" [.64mm] Sq. Post         |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | JC = .025" [.64mm] Sq. Post JG = .025" [.64mm] Sq. Post         |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | JW = .025" [.64mm] Sq. Post JY = .025" [.64mm] Sq. Post         |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | JX = .025" [.64mm] Sq. Post JZ = .025" [.64mm] Sq. Post         |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | <b>Right Angle</b>                                              |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | RA,SA = Right Angle, Full Bellows                               |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | TA,TB,TM = Right Angle, Loop Bellows                            |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | CA,CB,CC = Right Angle, Hairpin Bellows                         |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | HA = Right Angle, .050" & 1mm Contact Centers                   |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | HB = Right Angle, .050" Contact Centers                         |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | KA,KE,KU,KJ = .025" [.64mm] Square Post, Cantilever             |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | <b>Surface Mount</b>                                            |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | HF = Surface Mount, .050" & 1mm Contact Centers                 |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | <b>Wire Wrap</b>                                                |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | RM = .025" [.64mm] Square Post, Loop Bellows                    |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | CM,MC = .025" [.64mm] Square Post, Hairpin Bellows              |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | KK = .031" [.79mm] x .062" [1.58mm] Post                        |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | KL = .031" [.79mm] x .062" [1.58mm] Post Twisted 90°            |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | KM = .025" [.64mm] Square Post, Cantilever                      |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | WW = .045" [1.14mm] Square Post                                 |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | <b>Bi-Level Terminations</b>                                    |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | LR = Card Extender                                              |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | LT = Dip Solder                                                 |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | KB = Right Angle                                                |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | <b>Male Edgecards</b>                                           |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | MW,MS = Dip Solder                                              |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | MA,MV,MB = Right Angle                                          |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | MD,MJ,MK = Right Angle                                          |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | MR,MN = Card Extender                                           |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        | MM = Wire Wrap                                                  |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        |                                                                 |  |
|                                                                                                                                           |  |   |   |   |    |   |    |   |        |                                                                 |  |
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## Sullins Edgecards

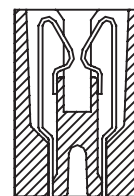
MICROPLASTICS  
**SULLINS**

**1.00 mm [.039"] Contact Centers, 15.49 mm Insulator Height**  
**Dip Solder/Card Extender/SMT**

### SPECIFICATIONS

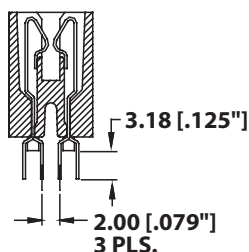
- Accommodates 1.57 mm  $\pm$  .20 [.062"  $\pm$  .008"] PC board
- PPS or PA9T insulator
- Molded-in key available
- 1 amp current rating per contact
- Highly reliable high cycle hairpin bellow contacts
- 150 grams normal force minimum

### READOUT

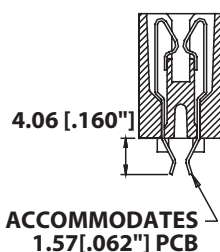


DUAL (D)

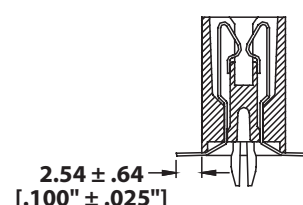
### TERMINATION TYPE



STAGGERED DIP SOLDER  
(HH)

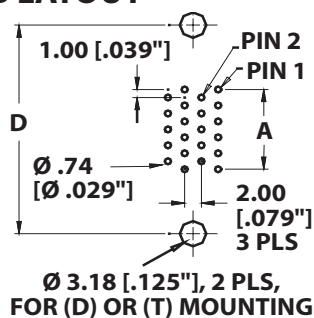


CARD EXTENDER  
(HR)

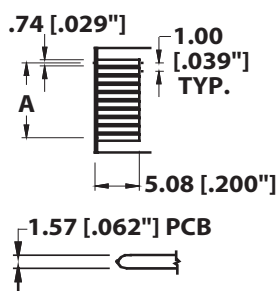


SURFACE MOUNT  
(HF)

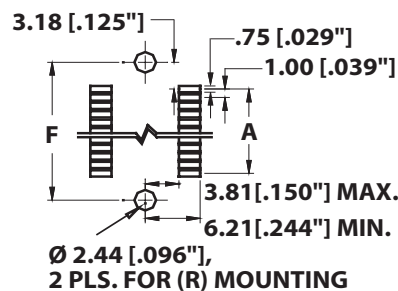
### PCB LAYOUT



CONNECTOR SIDE (HH)

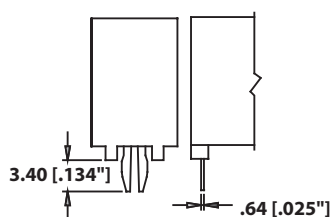


SOLDER END (HR)



CONNECTOR SIDE (HF)

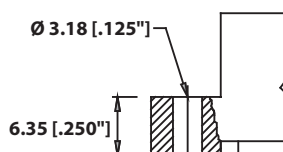
### MOUNTING STYLE



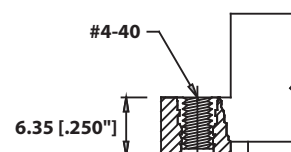
BOARD LOCK (R)



NO MOUNTING EARS (N)



FLUSH MOUNTING (D)



THREADED INSERT (T)

**1.00 mm [.039"] Contact Centers, 15.49mm Insulator Height  
Dip Solder/Card Extender/SMT**

**PART NUMBER CODING**

**MATERIALS (INSULATOR/CONTACT)**

R = PPS/Phosphor Bronze  
G = PA9T/Phosphor Bronze  
A = PPS/Beryllium Copper  
J = PA9T/Beryllium Copper

**CONTACT FINISH - RoHS Compliant**

All platings are Lead Free and have .000050" Nickel underplate

**Contact Surface**

B = .000010" Gold  
C = .000030" Gold

**Termination**

.000100" Pure Tin, Matte  
.000100" Pure Tin, Matte

**CONTACT CENTERS**

E = 1.00mm [.039"]

**G B E 50 D HH D - Sxxx**

**MODIFICATION CODE** (Consult Factory)  
OMIT FOR STANDARD

**MOUNTING STYLE (Opposite Page)**  
D = Flush Mounting  
N = No Mounting  
R = Metal Board Lock  
T = Flush Mounting, #4-40 Threaded Insert

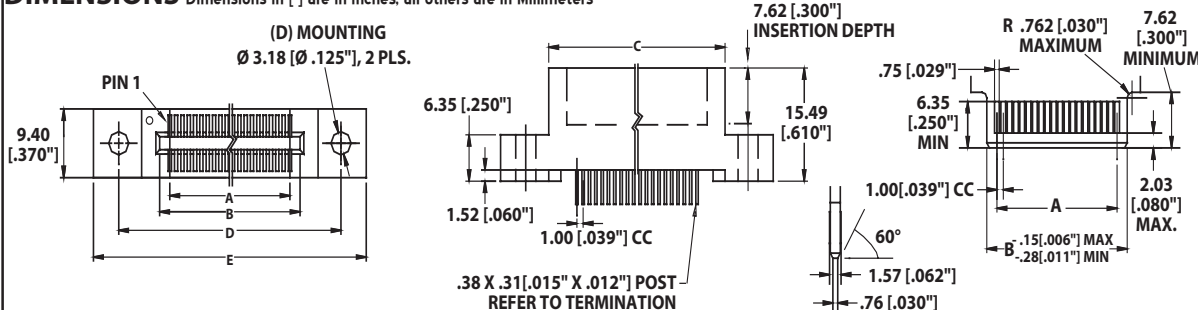
**TERMINATION TYPE (Opposite Page)**  
HH = Staggered Dip Solder  
HR = Card Extender  
HF = Surface Mount

**READOUT (Opposite Page)**  
D = Dual

**NUMBER OF CONTACT POSITIONS**  
See Chart Below

**DIMENSIONS**

Dimensions in [ ] are in Inches, all others are in Millimeters



| POSITIONS/<br>CONTACTS | MILLIMETERS |           |           |           |           |           | [INCHES]   |            |            |            |            |            |
|------------------------|-------------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|
|                        | A<br>±.13   | B<br>±.13 | C<br>±.38 | D<br>±.25 | E<br>±.51 | F<br>±.25 | A<br>±.005 | B<br>±.005 | C<br>±.015 | D<br>±.010 | E<br>±.020 | F<br>±.010 |
| 02/04*                 | 1.00        | 4.32      | 9.89      | 17.15     | 25.13     | 7.35      | 0.039      | 0.170      | 0.389      | 0.675      | 0.989      | 0.289      |
| 03/06*                 | 2.00        | 5.32      | 10.89     | 18.15     | 26.13     | 8.35      | 0.079      | 0.210      | 0.429      | 0.715      | 1.029      | 0.329      |
| 04/08*                 | 3.00        | 6.32      | 11.89     | 19.15     | 27.13     | 9.35      | 0.118      | 0.249      | 0.468      | 0.754      | 1.068      | 0.368      |
| 05/10                  | 4.00        | 7.32      | 12.89     | 20.15     | 28.13     | 10.35     | 0.157      | 0.288      | 0.507      | 0.793      | 1.107      | 0.407      |
| 06/12                  | 5.00        | 8.32      | 13.89     | 21.15     | 29.13     | 11.35     | 0.197      | 0.328      | 0.547      | 0.833      | 1.147      | 0.447      |
| 07/14                  | 6.00        | 9.32      | 14.89     | 22.15     | 30.13     | 12.35     | 0.236      | 0.367      | 0.586      | 0.872      | 1.186      | 0.486      |
| 08/16                  | 7.00        | 10.32     | 15.89     | 23.15     | 31.13     | 13.35     | 0.276      | 0.407      | 0.626      | 0.912      | 1.226      | 0.526      |
| 09/18                  | 8.00        | 11.32     | 16.89     | 24.15     | 32.13     | 14.35     | 0.315      | 0.446      | 0.665      | 0.951      | 1.265      | 0.565      |
| 10/20                  | 9.00        | 12.32     | 17.89     | 25.15     | 33.13     | 15.35     | 0.354      | 0.485      | 0.704      | 0.990      | 1.304      | 0.604      |
| 11/22                  | 10.00       | 13.32     | 18.89     | 26.15     | 34.13     | 16.35     | 0.394      | 0.525      | 0.744      | 1.030      | 1.344      | 0.644      |
| 12/24                  | 11.00       | 14.32     | 19.89     | 27.15     | 35.13     | 17.35     | 0.433      | 0.564      | 0.783      | 1.069      | 1.383      | 0.683      |
| 13/26                  | 12.00       | 15.32     | 20.89     | 28.15     | 36.13     | 18.35     | 0.472      | 0.603      | 0.822      | 1.108      | 1.422      | 0.722      |
| 14/28                  | 13.00       | 16.32     | 21.89     | 29.15     | 37.13     | 19.35     | 0.512      | 0.643      | 0.862      | 1.148      | 1.462      | 0.762      |
| 15/30                  | 14.00       | 17.32     | 22.89     | 30.15     | 38.13     | 20.35     | 0.551      | 0.682      | 0.901      | 1.187      | 1.501      | 0.801      |
| 16/32                  | 15.00       | 18.32     | 23.89     | 31.15     | 39.13     | 21.35     | 0.591      | 0.722      | 0.941      | 1.227      | 1.541      | 0.841      |
| 17/34                  | 16.00       | 19.32     | 24.89     | 32.15     | 40.13     | 22.35     | 0.630      | 0.761      | 0.980      | 1.266      | 1.580      | 0.880      |
| 18/36                  | 17.00       | 20.32     | 25.89     | 33.15     | 41.13     | 23.35     | 0.669      | 0.800      | 1.019      | 1.305      | 1.619      | 0.919      |
| 19/38                  | 18.00       | 21.32     | 26.89     | 34.15     | 42.13     | 24.35     | 0.709      | 0.840      | 1.059      | 1.345      | 1.659      | 0.959      |
| 20/40                  | 19.00       | 22.32     | 27.89     | 35.15     | 43.13     | 25.35     | 0.748      | 0.879      | 1.098      | 1.384      | 1.698      | 0.998      |
| 21/42                  | 20.00       | 23.32     | 28.89     | 36.15     | 44.13     | 26.35     | 0.787      | 0.918      | 1.137      | 1.423      | 1.737      | 1.037      |
| 22/44                  | 21.00       | 24.32     | 29.89     | 37.15     | 45.13     | 27.35     | 0.827      | 0.958      | 1.177      | 1.463      | 1.777      | 1.077      |
| 23/46                  | 22.00       | 25.32     | 30.89     | 38.15     | 46.13     | 28.35     | 0.866      | 0.997      | 1.216      | 1.502      | 1.816      | 1.116      |
| 24/48                  | 23.00       | 26.32     | 31.89     | 39.15     | 47.13     | 29.35     | 0.906      | 1.037      | 1.256      | 1.542      | 1.856      | 1.156      |
| 25/50                  | 24.00       | 27.32     | 32.89     | 40.15     | 48.13     | 30.35     | 0.945      | 1.076      | 1.295      | 1.581      | 1.895      | 1.195      |
| 26/52                  | 25.00       | 28.32     | 33.89     | 41.15     | 49.13     | 31.35     | 0.984      | 1.115      | 1.334      | 1.620      | 1.934      | 1.234      |
| 27/54                  | 26.00       | 29.32     | 34.89     | 42.15     | 50.13     | 32.35     | 1.024      | 1.155      | 1.374      | 1.660      | 1.974      | 1.274      |
| 28/56                  | 27.00       | 30.32     | 35.89     | 43.15     | 51.13     | 33.35     | 1.063      | 1.194      | 1.413      | 1.699      | 2.013      | 1.313      |
| 29/58                  | 28.00       | 31.32     | 36.89     | 44.15     | 52.13     | 34.35     | 1.102      | 1.233      | 1.452      | 1.738      | 2.052      | 1.352      |
| 30/60                  | 29.00       | 32.32     | 37.89     | 45.15     | 53.13     | 35.35     | 1.142      | 1.273      | 1.492      | 1.778      | 2.092      | 1.392      |
| 31/62                  | 30.00       | 33.32     | 38.89     | 46.15     | 54.13     | 36.35     | 1.181      | 1.312      | 1.531      | 1.817      | 2.131      | 1.431      |
| 32/64                  | 31.00       | 34.32     | 39.89     | 47.15     | 55.13     | 37.35     | 1.220      | 1.351      | 1.570      | 1.856      | 2.170      | 1.470      |
| 33/66                  | 32.00       | 35.32     | 40.89     | 48.15     | 56.13     | 38.35     | 1.260      | 1.391      | 1.610      | 1.896      | 2.210      | 1.510      |
| 34/68                  | 33.00       | 36.32     | 41.89     | 49.15     | 57.13     | 39.35     | 1.299      | 1.430      | 1.649      | 1.935      | 2.249      | 1.549      |
| 35/70                  | 34.00       | 37.32     | 42.89     | 50.15     | 58.13     | 40.35     | 1.339      | 1.470      | 1.689      | 1.975      | 2.289      | 1.589      |
| 36/72                  | 35.00       | 38.32     | 43.89     | 51.15     | 59.13     | 41.35     | 1.378      | 1.509      | 1.728      | 2.014      | 2.328      | 1.628      |
| 37/74                  | 36.00       | 39.32     | 44.89     | 52.15     | 60.13     | 42.35     | 1.417      | 1.548      | 1.767      | 2.053      | 2.367      | 1.667      |
| 38/76                  | 37.00       | 40.32     | 45.89     | 53.15     | 61.13     | 43.35     | 1.457      | 1.588      | 1.807      | 2.093      | 2.407      | 1.707      |
| 39/78                  | 38.00       | 41.32     | 46.89     | 54.15     | 62.13     | 44.35     | 1.496      | 1.627      | 1.846      | 2.132      | 2.446      | 1.746      |
| 40/80                  | 39.00       | 42.32     | 47.89     | 55.15     | 63.13     | 45.35     | 1.535      | 1.666      | 1.885      | 2.171      | 2.485      | 1.785      |
| 41/82                  | 40.00       | 43.32     | 48.89     | 56.15     | 64.13     | 46.35     | 1.575      | 1.706      | 1.925      | 2.211      | 2.525      | 1.825      |
| 42/84                  | 41.00       | 44.32     | 49.89     | 57.15     | 65.13     | 47.35     | 1.614      | 1.745      | 1.964      | 2.250      | 2.564      | 1.864      |
| 43/86                  | 42.00       | 45.32     | 50.89     | 58.15     | 66.13     | 48.35     | 1.654      | 1.785      | 2.004      | 2.290      | 2.604      | 1.904      |
| 44/88                  | 43.00       | 46.32     | 51.89     | 59.15     | 67.13     | 49.35     | 1.693      | 1.824      | 2.043      | 2.329      | 2.643      | 1.943      |
| 45/90                  | 44.00       | 47.32     | 52.89     | 60.15     | 68.13     | 50.35     | 1.732      | 1.863      | 2.082      | 2.368      | 2.682      | 1.982      |
| 46/92                  | 45.00       | 48.32     | 53.89     | 61.15     | 69.13     | 51.35     | 1.772      | 1.903      | 2.122      | 2.408      | 2.722      | 2.022      |
| 47/94                  | 46.00       | 49.32     | 54.89     | 62.15     | 70.13     | 52.35     | 1.811      | 1.942      | 2.161      | 2.447      | 2.761      | 2.061      |
| 48/96                  | 47.00       | 50.32     | 55.89     | 63.15     | 71.13     | 53.35     | 1.850      | 1.981      | 2.200      | 2.486      | 2.800      | 2.100      |
| 49/98                  | 48.00       | 51.32     | 56.89     | 64.15     | 72.13     | 54.35     | 1.890      | 2.021      | 2.240      | 2.526      | 2.840      | 2.140      |
| 50/100                 | 49.00       | 52.32     | 57.89     | 65.15     | 73.13     | 55.35     | 1.929      | 2.060      | 2.279      | 2.565      | 2.879      | 2.179      |

\* Consult Factory For Availability



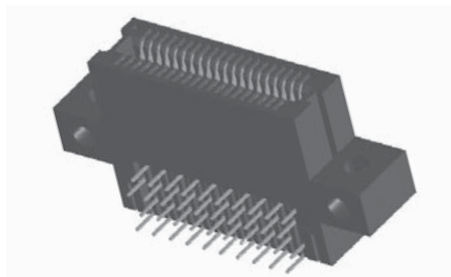
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

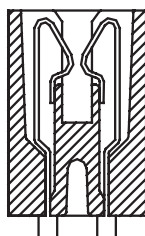
**1.00 mm [.039"] Contact Centers, 21.84 mm Insulator Height**  
**Right Angle**

### SPECIFICATIONS

- Accommodates 1.57 mm  $\pm$  .20 [.062"  $\pm$  .008"] PC board
- PA9T or PPS insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum

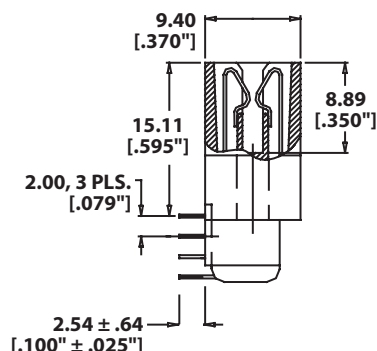


### READOUT

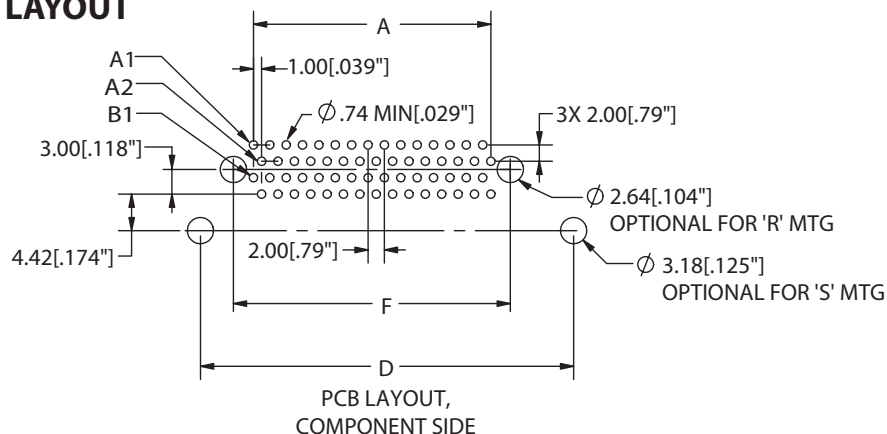


**DUAL (D)**

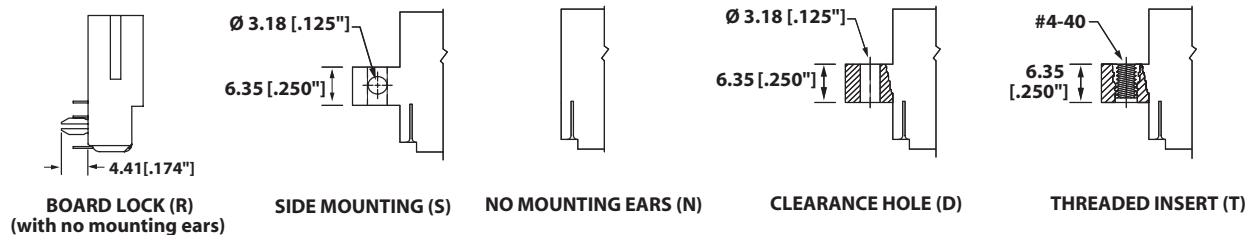
### TERMINATION TYPE



### PCB LAYOUT



### MOUNTING STYLE



# 1.00 mm [.039"] Contact Centers, 21.84 mm Insulator Height Right Angle

## PART NUMBER CODING

### MATERIALS (INSULATOR/CONTACT)

R = PPS/Phosphor Bronze  
G = PA9T/Phosphor Bronze  
A = PPS/Beryllium Copper  
J = PA9T/Beryllium Copper

### CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

**Contact Surface Termination**

B = .000010" Gold .000100" Pure Tin, Matte  
C = .000030" Gold .000100" Pure Tin, Matte

### CONTACT CENTERS

E = 1mm [.039"]

**G B E 50 D HA D - Sxxx**

**MODIFICATION CODE** (Consult Factory)

OMIT FOR STANDARD

**MOUNTING STYLE** (Opposite Page)

D = Flush Mounting  
N = No Mounting  
R = Metal Board Lock  
S = Side Mounting  
T = Flush Mounting with Threaded Insert

**TERMINATION TYPE** (Opposite Page)

HA = Staggered Dip Solder, Right Angle

**READOUT** (Opposite Page)

D = Dual

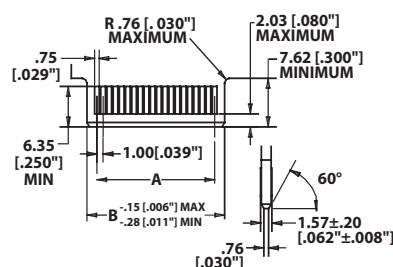
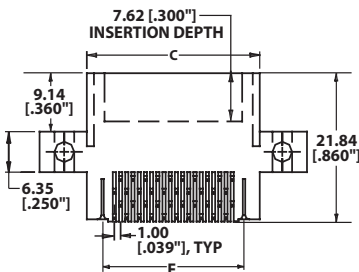
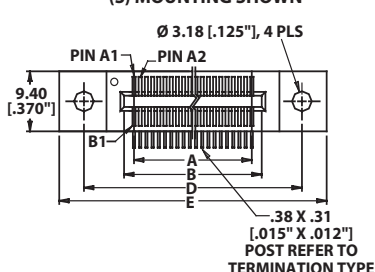
**NUMBER OF CONTACT POSITIONS**

See Chart Below

## DIMENSIONS

Dimensions in [ ] are in Inches, all others are in Millimeters

### (S) MOUNTING SHOWN



| POSITIONS/<br>CONTACTS | MILLIMETERS |           |           |           |           |           | [INCHES]   |            |            |            |            |            |
|------------------------|-------------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|
|                        | A<br>±.13   | B<br>±.13 | C<br>±.38 | D<br>±.25 | E<br>±.51 | F<br>±.25 | A<br>±.005 | B<br>±.005 | C<br>±.015 | D<br>±.010 | E<br>±.020 | F<br>±.010 |
| 02/04*                 | 1.00        | 4.32      | 9.89      | 17.15     | 25.13     | 5.25      | 0.039      | 0.170      | 0.389      | 0.675      | 0.989      | 0.207      |
| 03/06*                 | 2.00        | 5.32      | 10.89     | 18.15     | 26.13     | 6.25      | 0.079      | 0.210      | 0.429      | 0.715      | 1.029      | 0.246      |
| 04/08*                 | 3.00        | 6.32      | 11.89     | 19.15     | 27.13     | 7.25      | 0.118      | 0.249      | 0.468      | 0.754      | 1.068      | 0.285      |
| 05/10                  | 4.00        | 7.32      | 12.89     | 20.15     | 28.13     | 8.25      | 0.157      | 0.288      | 0.507      | 0.793      | 1.107      | 0.325      |
| 06/12                  | 5.00        | 8.32      | 13.89     | 21.15     | 29.13     | 9.25      | 0.197      | 0.328      | 0.547      | 0.833      | 1.147      | 0.364      |
| 07/14                  | 6.00        | 9.32      | 14.89     | 22.15     | 30.13     | 10.25     | 0.236      | 0.367      | 0.586      | 0.872      | 1.186      | 0.404      |
| 08/16                  | 7.00        | 10.32     | 15.89     | 23.15     | 31.13     | 11.25     | 0.276      | 0.407      | 0.626      | 0.912      | 1.226      | 0.443      |
| 09/18                  | 8.00        | 11.32     | 16.89     | 24.15     | 32.13     | 12.25     | 0.315      | 0.446      | 0.665      | 0.951      | 1.265      | 0.482      |
| 10/20                  | 9.00        | 12.32     | 17.89     | 25.15     | 33.13     | 13.25     | 0.354      | 0.485      | 0.704      | 0.990      | 1.304      | 0.522      |
| 11/22                  | 10.00       | 13.32     | 18.89     | 26.15     | 34.13     | 14.25     | 0.394      | 0.525      | 0.744      | 1.030      | 1.344      | 0.561      |
| 12/24                  | 11.00       | 14.32     | 19.89     | 27.15     | 35.13     | 15.25     | 0.433      | 0.564      | 0.783      | 1.069      | 1.383      | 0.600      |
| 13/26                  | 12.00       | 15.32     | 20.89     | 28.15     | 36.13     | 16.25     | 0.472      | 0.603      | 0.822      | 1.108      | 1.422      | 0.640      |
| 14/28                  | 13.00       | 16.32     | 21.89     | 29.15     | 37.13     | 17.25     | 0.512      | 0.643      | 0.862      | 1.148      | 1.462      | 0.679      |
| 15/30                  | 14.00       | 17.32     | 22.89     | 30.15     | 38.13     | 18.25     | 0.551      | 0.682      | 0.901      | 1.187      | 1.501      | 0.719      |
| 16/32                  | 15.00       | 18.32     | 23.89     | 31.15     | 39.13     | 19.25     | 0.591      | 0.722      | 0.941      | 1.227      | 1.541      | 0.758      |
| 17/34                  | 16.00       | 19.32     | 24.89     | 32.15     | 40.13     | 20.25     | 0.630      | 0.761      | 0.980      | 1.266      | 1.580      | 0.797      |
| 18/36                  | 17.00       | 20.32     | 25.89     | 33.15     | 41.13     | 21.25     | 0.669      | 0.800      | 1.019      | 1.305      | 1.619      | 0.937      |
| 19/38                  | 18.00       | 21.32     | 26.89     | 34.15     | 42.13     | 22.25     | 0.709      | 0.840      | 1.059      | 1.345      | 1.659      | 0.876      |
| 20/40                  | 19.00       | 22.32     | 27.89     | 35.15     | 43.13     | 23.25     | 0.748      | 0.879      | 1.098      | 1.384      | 1.698      | 0.915      |
| 21/42                  | 20.00       | 23.32     | 28.89     | 36.15     | 44.13     | 24.25     | 0.787      | 0.918      | 1.137      | 1.423      | 1.737      | 0.955      |
| 22/44                  | 21.00       | 24.32     | 29.89     | 37.15     | 45.13     | 25.25     | 0.827      | 0.958      | 1.177      | 1.463      | 1.777      | 0.994      |
| 23/46                  | 22.00       | 25.32     | 30.89     | 38.15     | 46.13     | 26.25     | 0.866      | 0.997      | 1.216      | 1.502      | 1.816      | 1.033      |
| 24/48                  | 23.00       | 26.32     | 31.89     | 39.15     | 47.13     | 27.25     | 0.906      | 1.037      | 1.256      | 1.542      | 1.856      | 1.073      |
| 25/50                  | 24.00       | 27.32     | 32.89     | 40.15     | 48.13     | 28.25     | 0.945      | 1.076      | 1.295      | 1.581      | 1.895      | 1.112      |
| 26/52                  | 25.00       | 28.32     | 33.89     | 41.15     | 49.13     | 29.25     | 0.984      | 1.115      | 1.334      | 1.620      | 1.934      | 1.152      |
| 27/54                  | 26.00       | 29.32     | 34.89     | 42.15     | 50.13     | 30.25     | 1.024      | 1.155      | 1.374      | 1.660      | 1.974      | 1.191      |
| 28/56                  | 27.00       | 30.32     | 35.89     | 43.15     | 51.13     | 31.25     | 1.063      | 1.194      | 1.413      | 1.699      | 2.013      | 1.230      |
| 29/58                  | 28.00       | 31.32     | 36.89     | 44.15     | 52.13     | 32.25     | 1.102      | 1.233      | 1.452      | 1.738      | 2.052      | 1.270      |
| 30/60                  | 29.00       | 32.32     | 37.89     | 45.15     | 53.13     | 33.25     | 1.142      | 1.273      | 1.492      | 1.778      | 2.092      | 1.309      |
| 31/62                  | 30.00       | 33.32     | 38.89     | 46.15     | 54.13     | 34.25     | 1.181      | 1.312      | 1.531      | 1.817      | 2.131      | 1.348      |
| 32/64                  | 31.00       | 34.32     | 39.89     | 47.15     | 55.13     | 35.25     | 1.220      | 1.351      | 1.570      | 1.856      | 2.170      | 1.388      |
| 33/66                  | 32.00       | 35.32     | 40.89     | 48.15     | 56.13     | 36.25     | 1.260      | 1.391      | 1.610      | 1.896      | 2.210      | 1.427      |
| 34/68                  | 33.00       | 36.32     | 41.89     | 49.15     | 57.13     | 37.25     | 1.299      | 1.430      | 1.649      | 1.935      | 2.249      | 1.467      |
| 35/70                  | 34.00       | 37.32     | 42.89     | 50.15     | 58.13     | 38.25     | 1.339      | 1.470      | 1.689      | 1.975      | 2.289      | 1.506      |
| 36/72                  | 35.00       | 38.32     | 43.89     | 51.15     | 59.13     | 39.25     | 1.378      | 1.509      | 1.728      | 2.014      | 2.328      | 1.545      |
| 37/74                  | 36.00       | 39.32     | 44.89     | 52.15     | 60.13     | 40.25     | 1.417      | 1.548      | 1.767      | 2.053      | 2.367      | 1.585      |
| 38/76                  | 37.00       | 40.32     | 45.89     | 53.15     | 61.13     | 41.25     | 1.457      | 1.588      | 1.807      | 2.093      | 2.407      | 1.624      |
| 39/78                  | 38.00       | 41.32     | 46.89     | 54.15     | 62.13     | 42.25     | 1.496      | 1.627      | 1.846      | 2.132      | 2.446      | 1.663      |
| 40/80                  | 39.00       | 42.32     | 47.89     | 55.15     | 63.13     | 43.25     | 1.535      | 1.666      | 1.885      | 2.171      | 2.485      | 1.703      |
| 41/82                  | 40.00       | 43.32     | 48.89     | 56.15     | 64.13     | 44.25     | 1.575      | 1.706      | 1.925      | 2.211      | 2.525      | 1.742      |
| 42/84                  | 41.00       | 44.32     | 49.89     | 57.15     | 65.13     | 45.25     | 1.614      | 1.745      | 1.964      | 2.250      | 2.564      | 1.781      |
| 43/86                  | 42.00       | 45.32     | 50.89     | 58.15     | 66.13     | 46.25     | 1.654      | 1.785      | 2.004      | 2.290      | 2.604      | 1.821      |
| 44/88                  | 43.00       | 46.32     | 51.89     | 59.15     | 67.13     | 47.25     | 1.693      | 1.824      | 2.043      | 2.329      | 2.643      | 1.860      |
| 45/90                  | 44.00       | 47.32     | 52.89     | 60.15     | 68.13     | 48.25     | 1.732      | 1.863      | 2.082      | 2.368      | 2.682      | 1.900      |
| 46/92                  | 45.00       | 48.32     | 53.89     | 61.15     | 69.13     | 49.25     | 1.772      | 1.903      | 2.122      | 2.408      | 2.722      | 1.939      |
| 47/94                  | 46.00       | 49.32     | 54.89     | 62.15     | 70.13     | 50.25     | 1.811      | 1.942      | 2.161      | 2.447      | 2.761      | 1.978      |
| 48/96                  | 47.00       | 50.32     | 55.89     | 63.15     | 71.13     | 51.25     | 1.850      | 1.981      | 2.200      | 2.486      | 2.800      | 2.018      |
| 49/98                  | 48.00       | 51.32     | 56.89     | 64.15     | 72.13     | 52.25     | 1.890      | 2.021      | 2.240      | 2.526      | 2.840      | 2.057      |
| 50/100                 | 49.00       | 52.32     | 57.89     | 65.15     | 73.13     | 53.25     | 1.929      | 2.060      | 2.279      | 2.565      | 2.879      | 2.096      |

\* Consult Factory For Availability

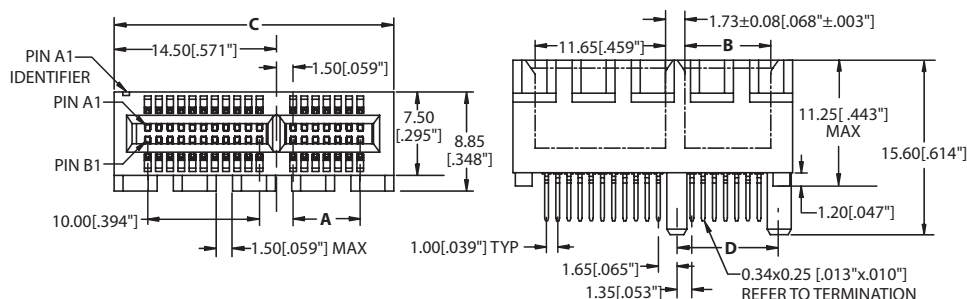


## Sullins Edgecards

### 1.00 mm [.039"] Contact Centers, PCI Express, Dip Solder

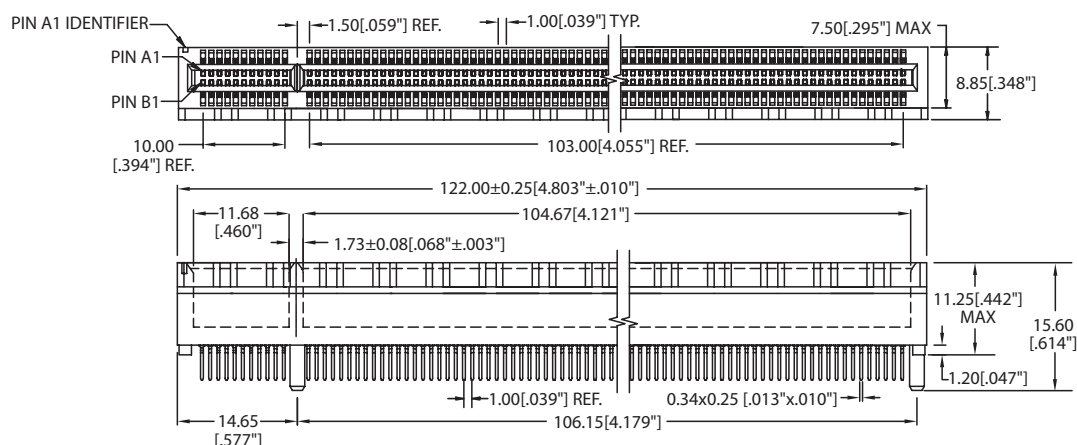
**MICROPLASTICS**  
**SULLINS**

#### DIMENSIONS Dimensions in [ ] are in Inches, all others are in Millimeters

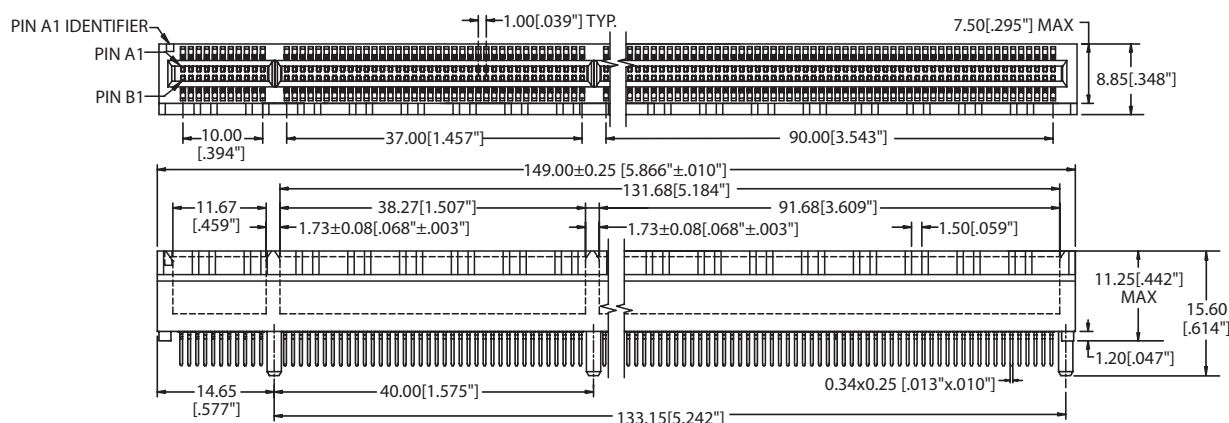


#### STAGGERED DIP SOLDER (HH)

| POSITIONS/<br>CONTACTS | MILLIMETERS |          |          |          | [INCHES]   |            |            |            |
|------------------------|-------------|----------|----------|----------|------------|------------|------------|------------|
|                        | A ± 0.15    | B ± 0.15 | C ± 0.15 | D ± 0.15 | A ± 0.006" | B ± 0.006" | C ± 0.006" | D ± 0.006" |
| 18/36                  | 6.00        | 7.65     | 25.00    | 9.15     | 0.236      | 0.301      | 0.984      | 0.360      |
| 32/64                  | 20.00       | 21.65    | 39.00    | 23.15    | 0.787      | 0.852      | 1.535      | 0.911      |
| 49/98                  | 37.00       | 38.65    | 56.00    | 40.15    | 1.457      | 1.522      | 2.205      | 1.581      |
| 82/164                 | 70.00       | 71.65    | 89.00    | 73.15    | 2.756      | 2.821      | 3.504      | 2.880      |



#### 115/230 POSITION, STAGGERED DIP SOLDER (HH)

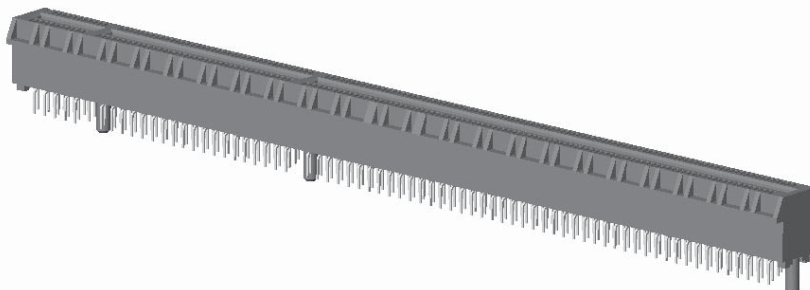


#### 140/280 POSITION, STAGGERED DIP SOLDER (HH)



## PART NUMBER CODING

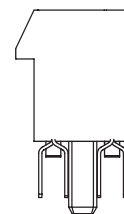
|                                                                |   |   |   |    |   |    |   |     |   |   |                                                                |
|----------------------------------------------------------------|---|---|---|----|---|----|---|-----|---|---|----------------------------------------------------------------|
| <b>MATERIALS (INSULATOR/CONTACT)</b>                           | N | B | E | 18 | D | HH | N | -T9 | 2 | 1 | <b>COLOR</b>                                                   |
| N = Nylon 6T/Phosphor Bronze                                   |   |   |   |    |   |    |   |     |   |   | 1 = Black<br>Other Options Available                           |
| <b>CONTACT FINISH - RoHS Compliant</b>                         |   |   |   |    |   |    |   |     |   |   | <b>TAIL LENGTH</b>                                             |
| All platings are Lead Free and have .000050" Nickel underplate |   |   |   |    |   |    |   |     |   |   | 1 = 2.30mm [.091"]<br>2 = 2.54mm [.100"]<br>3 = 3.00mm [.118"] |
| <b>Contact Surface</b>                                         |   |   |   |    |   |    |   |     |   |   | <b>MOUNTING STYLE</b>                                          |
| B = .000010" Gold                                              |   |   |   |    |   |    |   |     |   |   | N = No Mounting                                                |
| C = .000030" Gold                                              |   |   |   |    |   |    |   |     |   |   | <b>TERMINATION TYPE</b>                                        |
| W = Gold Flash                                                 |   |   |   |    |   |    |   |     |   |   | HH = Staggered Dip Solder                                      |
| <b>CONTACT CENTERS</b>                                         |   |   |   |    |   |    |   |     |   |   | <b>READOUT</b>                                                 |
| E = 1mm [.039"]                                                |   |   |   |    |   |    |   |     |   |   | D = Dual                                                       |
| <b>NUMBER OF CONTACT POSITIONS</b>                             |   |   |   |    |   |    |   |     |   |   |                                                                |
| 18, 32, 49, 82, 115, 140                                       |   |   |   |    |   |    |   |     |   |   |                                                                |



## SPECIFICATIONS

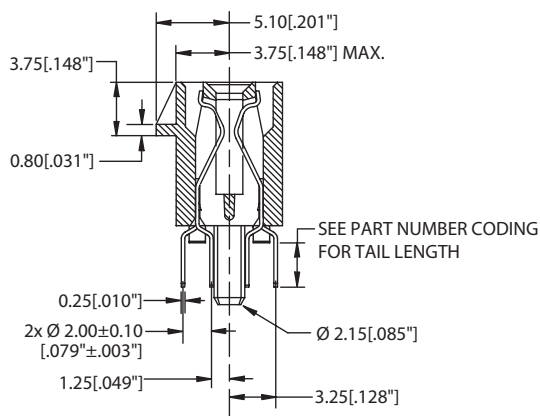
- All PCI Express parts meet the latest PCI Express specifications
- Supports 2.5 Gb/s Data Transfer Rate (per pair data bandwidth)
- Accommodates 1.57mm  $\pm$  0.20mm [.062"  $\pm$  .008"] PC board
- Nylon 6T insulator
- 1.1 amp current rating per contact

## READOUT



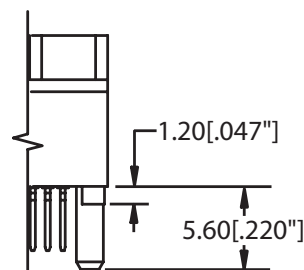
**DUAL (D)**

## TERMINATION TYPE



**Staggered Dip Solder (HH)**

## MOUNTING STYLE



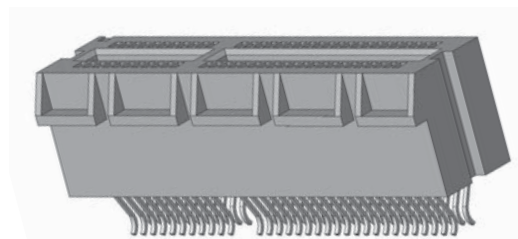
**No Mounting Ears (N)**



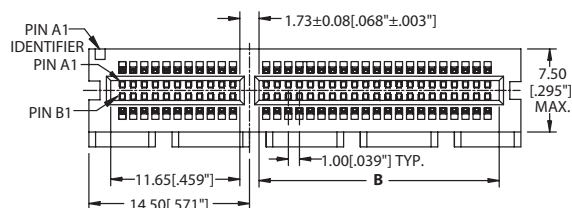
## Sullins Edgecards

### 1.00 mm [.039"] Contact Centers, PCI Express, Card Extender for Surface Mount

**MICROPLASTICS**  
**SULLINS**

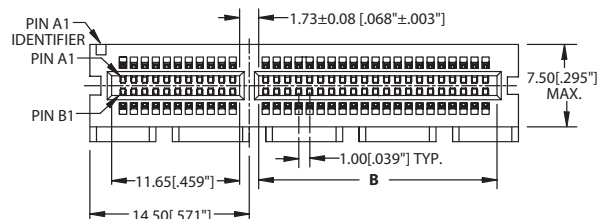
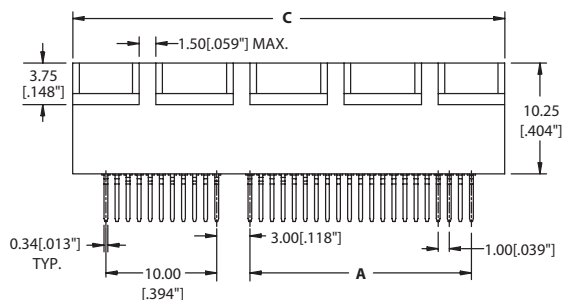


#### DIMENSIONS Dimensions in [ ] are in Inches, all others are in Millimeters



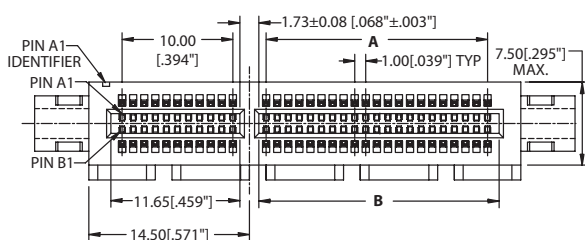
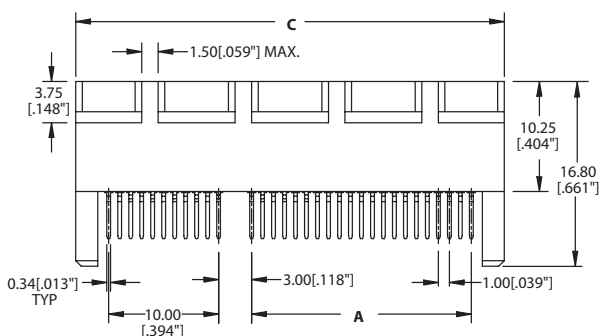
#### STRADDLE MOUNT

Example Part Number: NBE18DHRN-T941



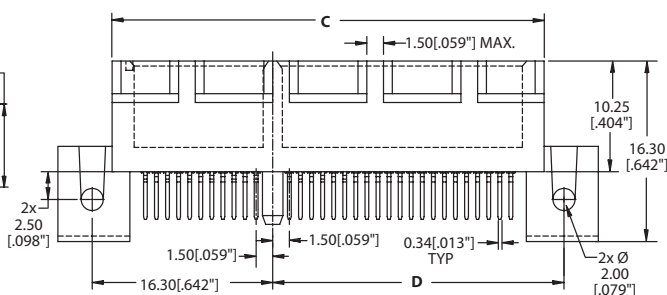
#### STRADDLE MOUNT with PEGS

Example Part Number: NBE18DHRN-T9410



#### STRADDLE MOUNT with CLIPS

Example Part Number: NBE18DHRQ-T941

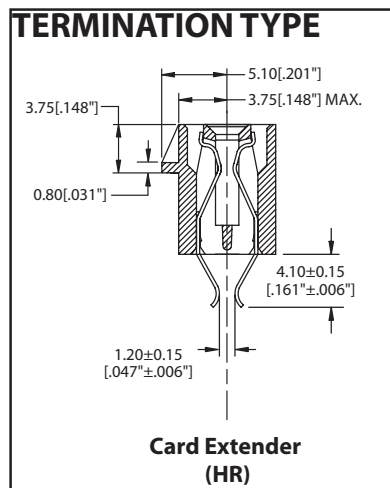


| POSITIONS/<br>CONTACTS | MILLIMETERS |          |          |          | [INCHES]   |            |            |            |
|------------------------|-------------|----------|----------|----------|------------|------------|------------|------------|
|                        | A ± 0.15    | B ± 0.15 | C ± 0.15 | D ± 0.15 | A ± 0.006" | B ± 0.006" | C ± 0.006" | D ± 0.006" |
| 18/36                  | 6.00        | 7.65     | 25.00    | 12.30    | 0.236      | 0.301      | 0.984      | 0.484      |
| 32/64                  | 20.00       | 21.65    | 39.00    | 26.30    | 0.787      | 0.852      | 1.535      | 1.035      |
| 49/98                  | 37.00       | 38.65    | 56.00    | 43.30    | 1.457      | 1.522      | 2.205      | 1.705      |
| 82/164                 | 70.00       | 71.65    | 89.00    | 76.30    | 2.756      | 2.821      | 3.504      | 3.004      |



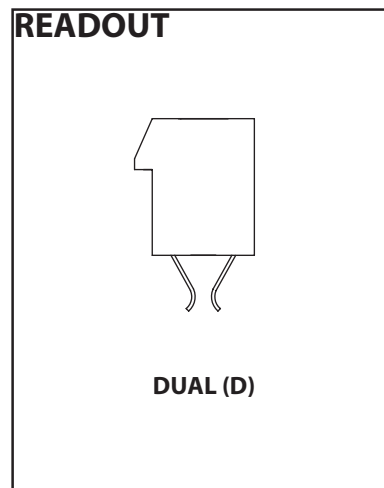
## PART NUMBER CODING

|                                                                      |                                                                                                          |                                           |                                                      |                            |                                                           |                                                      |                                          |                                                                           |                                                                  |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------|----------------------------|-----------------------------------------------------------|------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------|
| <b>MATERIALS (INSULATOR/CONTACT)</b><br>N = Nylon 6T/Phosphor Bronze | <b>CONTACT FINISH - RoHS Compliant</b><br>All platings are Lead Free and have .000050" Nickel underplate | <b>CONTACT CENTERS</b><br>E = 1mm [.039"] | <b>NUMBER OF CONTACT POSITIONS</b><br>18, 32, 49, 82 | <b>READOUT</b><br>D = Dual | <b>MODIFICATION CODE</b><br>OMIT FOR STANDARD<br>0 = Pegs | <b>COLOR</b><br>1 = Black<br>Other Options Available | <b>TAIL LENGTH</b><br>4 = 4.10mm [.161"] | <b>MOUNTING STYLE</b><br>N = No Mounting<br>Q = Straddle Mount with Clips | <b>TERMINATION TYPE</b><br>HR = Card Extender for Straddle Mount |
|                                                                      | <b>Contact Surface</b><br>B = .000010" Gold<br>C = .000030" Gold<br>W = Gold Flash                       |                                           |                                                      |                            |                                                           |                                                      |                                          |                                                                           |                                                                  |
|                                                                      | <b>Termination</b><br>.000100" Pure Tin, Matte<br>.000100" Pure Tin, Matte<br>.000100" Pure Tin, Matte   |                                           |                                                      |                            |                                                           |                                                      |                                          |                                                                           |                                                                  |

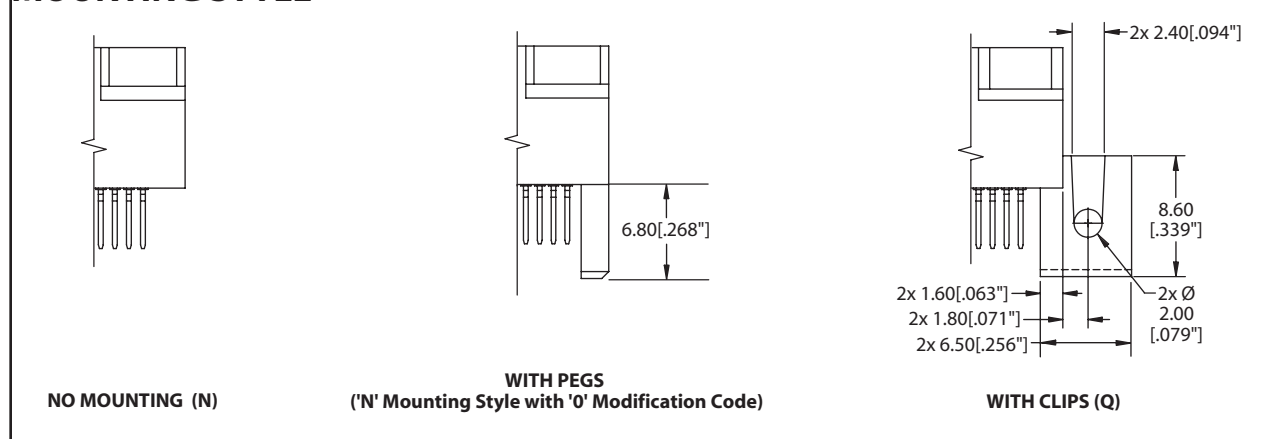


## SPECIFICATIONS

- All PCI Express parts meet the latest PCI Express specifications
- Supports 2.5 Gb/s Data Transfer Rate (per pair data bandwidth)
- Accommodates 1.57mm ± 0.20mm [.062" ± .008"] PC board
- Nylon 6T insulator
- 1.1 amp current rating per contact



## MOUNTING STYLE





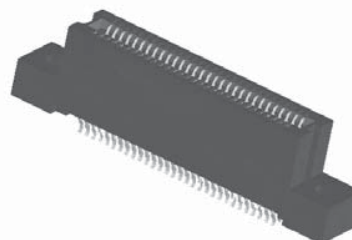
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

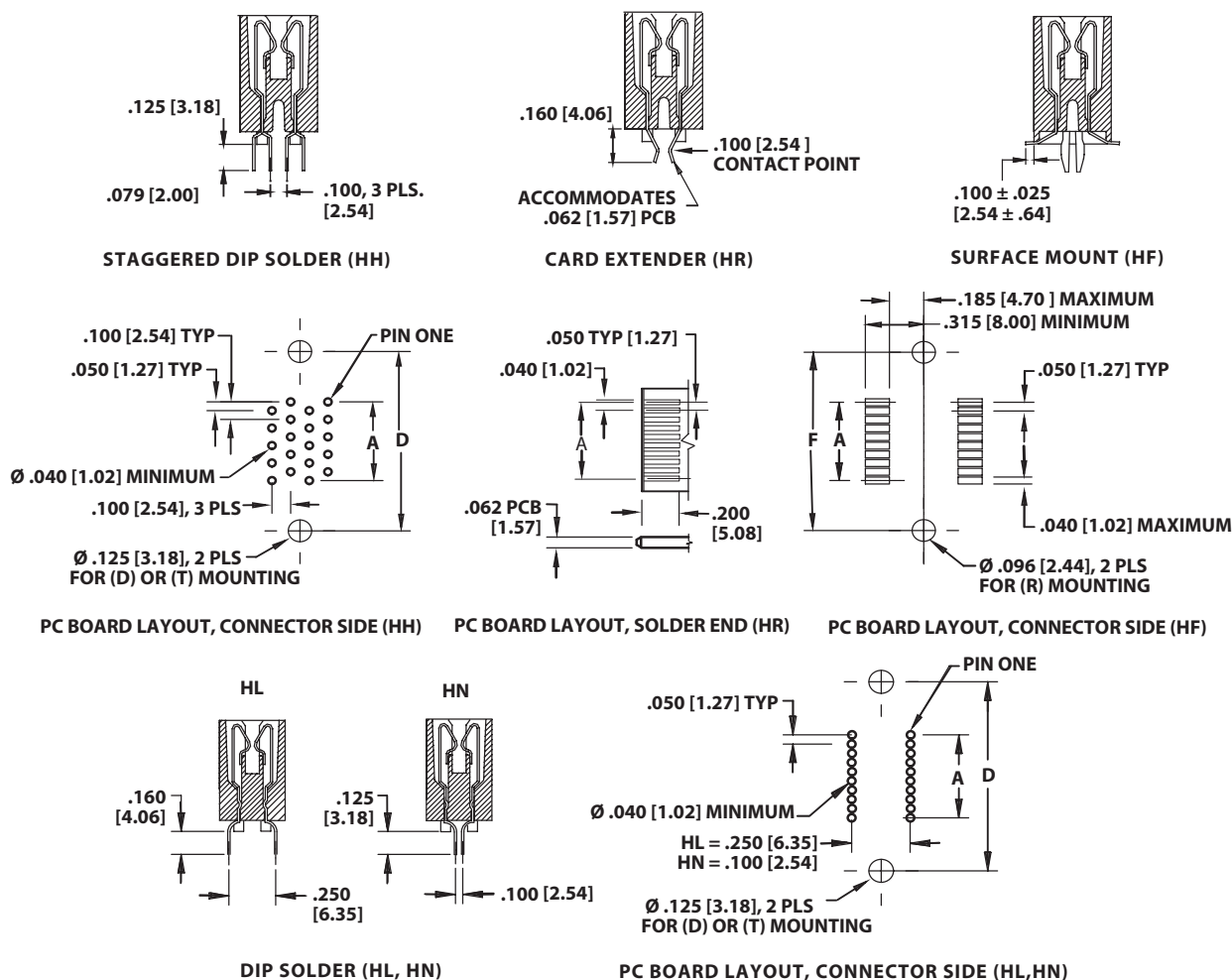
**.050" [1.27mm] Contact Centers, .610" Insulator Height**  
**Dip Solder/Card Extender/SMT**

### SPECIFICATIONS

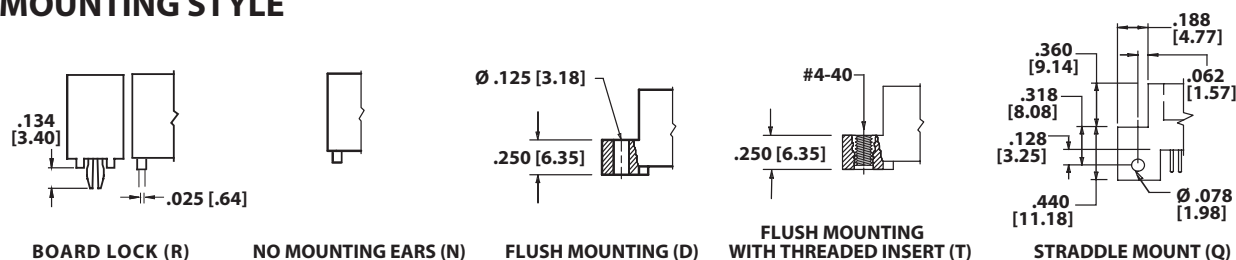
- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum



### TERMINATION TYPE



### MOUNTING STYLE



**.050" [1.27mm] Contact Centers, .610" Insulator Height**  
**Dip Solder/Card Extender/SMT**

**PART NUMBER CODING**

**MATERIALS (INSULATOR/CONTACT)**

G = PA9T/Phosphor Bronze  
R = PPS/Phosphor Bronze  
J = PA9T/Beryllium Copper  
A = PPS/Beryllium Copper  
(Consult Factory for Other Materials)

**CONTACT FINISH - RoHS Compliant**

All platings are Lead Free and have .000050" Nickel underplate

**Contact Surface**                      **Termination**  
B = .000010" Gold                      .000100" Pure Tin, Matte  
C = .000030" Gold                      .000100" Pure Tin, Matte

**CONTACT CENTERS**

B = .050 [1.27mm]

**NUMBER OF CONTACT POSITIONS**

See Chart Below

**G B B 40 D HH D - Sxxx**

**MODIFICATION CODE** (Consult Factory)  
OMIT FOR STANDARD

**MOUNTING STYLE (Opposite Page)**

D = Flush Mounting  
N = No Mounting  
T = Flush Mounting With Threaded Insert  
Q = Straddle Mount (Card Extender Only)  
R = Metal Boardlocks

**TERMINATION TYPE (Opposite Page)**

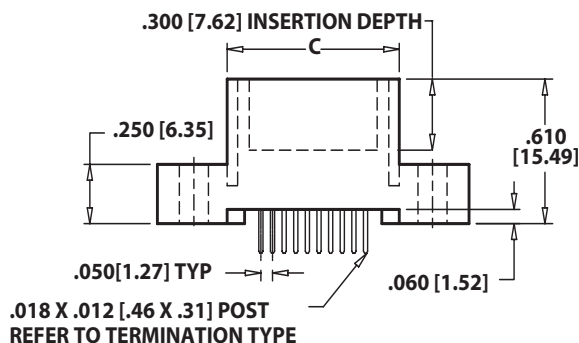
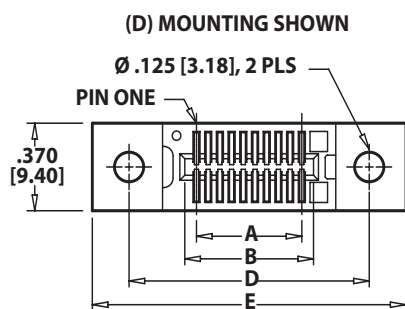
HH = Staggered Dip Solder  
HR = Card Extender  
HF = Surface Mount  
HL = .250 x .160 [6.35mm x 4.06] Dip Solder  
HN = .100 x .125 [2.54mm x 3.18] Dip Solder  
(Replaces Terminations CH, CR, CF, CL, CN)

**READOUT (Opposite Page)**

D = Dual

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |       |       |                   |       |       | [MILLIMETERS] |        |        |                   |        |        |
|------------------------|--------|-------|-------|-------------------|-------|-------|---------------|--------|--------|-------------------|--------|--------|
|                        | A      | B     | C     | D                 | E     | F     | A             | B      | C      | D                 | E      | F      |
|                        | ±.005  | ±.005 | ±.015 | ±.010             | ±.020 | ±.010 | ±.13          | ±.13   | ±.38   | ±.25              | ±.51   | ±.25   |
| 05/10                  | 0.200  | 0.300 | 0.490 | 0.776             | 1.090 | 0.350 | 5.08          | 7.62   | 12.45  | 19.71             | 27.69  | 8.89   |
| 06/12                  | 0.250  | 0.350 | 0.540 | 0.826             | 1.140 | 0.400 | 6.35          | 8.89   | 13.72  | 20.98             | 28.96  | 10.16  |
| 09/18                  | 0.400  | 0.500 | 0.690 | 0.976             | 1.290 | 0.550 | 10.16         | 12.70  | 17.53  | 24.79             | 32.77  | 13.97  |
| 10/20                  | 0.450  | 0.550 | 0.740 | 1.026             | 1.340 | 0.600 | 11.43         | 13.97  | 18.80  | 26.06             | 34.04  | 15.24  |
| 13/26                  | 0.600  | 0.700 | 0.890 | 1.176             | 1.490 | 0.750 | 15.24         | 17.78  | 22.61  | 29.87             | 37.85  | 19.05  |
| 14/28                  | 0.650  | 0.750 | 0.940 | 1.226             | 1.540 | 0.800 | 16.51         | 19.05  | 23.88  | 31.14             | 39.12  | 20.32  |
| 15/30                  | 0.700  | 0.800 | 0.990 | 1.276             | 1.590 | 0.850 | 17.78         | 20.32  | 25.15  | 32.41             | 40.39  | 21.59  |
| 20/40                  | 0.950  | 1.050 | 1.240 | 1.526             | 1.840 | 1.100 | 24.13         | 26.67  | 31.50  | 38.76             | 46.74  | 27.94  |
| 22/44                  | 1.050  | 1.150 | 1.340 | 1.626             | 1.940 | 1.200 | 26.67         | 29.21  | 34.04  | 41.30             | 49.28  | 30.48  |
| 24/48                  | 1.150  | 1.250 | 1.440 | 1.726             | 2.040 | 1.300 | 29.21         | 31.75  | 36.58  | 43.84             | 51.82  | 33.02  |
| 25/50                  | 1.200  | 1.300 | 1.490 | 1.776             | 2.090 | 1.350 | 30.48         | 33.02  | 37.85  | 45.11             | 53.09  | 34.29  |
| 30/60                  | 1.450  | 1.550 | 1.740 | 2.026             | 2.340 | 1.600 | 36.83         | 39.37  | 44.20  | 51.46             | 59.44  | 40.64  |
| 34/68                  | 1.650  | 1.750 | 1.940 | 2.226             | 2.540 | 1.800 | 41.91         | 44.45  | 49.28  | 56.54             | 64.52  | 45.72  |
| 35/70                  | 1.700  | 1.800 | 1.990 | 2.276             | 2.590 | 1.850 | 43.18         | 45.72  | 50.55  | 57.81             | 65.79  | 46.99  |
| 40/80                  | 1.950  | 2.050 | 2.240 | 2.526             | 2.840 | 2.100 | 49.53         | 52.07  | 56.90  | 64.16             | 72.14  | 53.34  |
| 45/90                  | 2.200  | 2.300 | 2.490 | 2.776             | 3.090 | 2.350 | 55.88         | 58.42  | 63.25  | 70.51             | 78.49  | 59.69  |
| 50/100                 | 2.450  | 2.550 | 2.740 | 3.026             | 3.340 | 2.600 | 62.23         | 64.77  | 69.60  | 76.86             | 84.84  | 66.04  |
| 55/110                 | 2.700  | 2.800 | 2.990 | 3.276             | 3.590 | 2.850 | 68.58         | 71.12  | 75.95  | 83.21             | 91.19  | 72.39  |
| 60/120                 | 2.950  | 3.050 | 3.240 | 3.526             | 3.840 | 3.100 | 74.93         | 77.47  | 82.30  | 89.56             | 97.54  | 78.74  |
| 64/128                 | 3.150  | 3.250 | 3.440 | 3.726             | 4.040 | 3.300 | 80.01         | 82.55  | 87.38  | 94.64             | 102.62 | 83.82  |
| 65/130                 | 3.200  | 3.300 | 3.490 | 3.776             | 4.090 | 3.350 | 81.28         | 83.82  | 88.65  | 95.91             | 103.89 | 85.09  |
| 66/132                 | 3.250  | 3.350 | 3.540 | 3.826             | 4.140 | 3.400 | 82.55         | 85.09  | 89.92  | 97.18             | 105.16 | 86.36  |
| 70/140                 | 3.450  | 3.550 | 3.740 | 4.026             | 4.340 | 3.600 | 87.63         | 90.17  | 95.00  | 102.26            | 110.24 | 91.44  |
| 75/150                 | 3.700  | 3.800 | 3.990 | 4.276             | 4.590 | 3.850 | 93.98         | 96.52  | 101.35 | 108.61            | 116.59 | 97.79  |
| 80/160                 | 3.950  | 4.050 | 4.240 | 4.526             | 4.840 | 4.100 | 100.33        | 102.87 | 107.70 | 114.96            | 122.94 | 104.14 |
| 85/170                 | 4.200  | 4.300 | 4.490 | 4.776             | 5.090 | 4.350 | 106.68        | 109.22 | 114.05 | 121.31            | 129.29 | 110.49 |
| 90/180                 | 4.450  | 4.550 | 4.740 | 5.026             | 5.340 | 4.600 | 113.03        | 115.57 | 120.40 | 127.66            | 135.64 | 116.84 |
| 95/190                 | 4.700  | 4.800 | 4.990 | 5.276             | 5.590 | 4.850 | 119.38        | 121.92 | 126.75 | 134.01            | 141.99 | 123.19 |
| 100/200                | 4.950  | 5.050 | 5.240 | 5.526             | 5.840 | 5.100 | 125.73        | 128.27 | 133.10 | 140.36            | 148.34 | 129.54 |
| 105/210                | 5.200  | 5.300 | 5.490 | 5.776             | 6.090 | 5.350 | 132.08        | 134.62 | 139.45 | 146.71            | 154.69 | 135.89 |
| 108/216                | 5.350  | 5.450 | 5.640 | 5.926             | 6.240 | 5.500 | 135.89        | 138.43 | 143.26 | 150.52            | 158.50 | 139.70 |
| 110/220                | 5.450  | 5.550 | 5.740 | 6.026             | 6.340 | 5.600 | 138.43        | 140.97 | 145.80 | 153.06            | 161.04 | 142.24 |
| 120/240                | 5.950  | 6.050 | 6.240 | 'N' Mounting Only |       | 6.100 | 151.13        | 153.67 | 158.50 | 'N' Mounting Only |        | 154.94 |



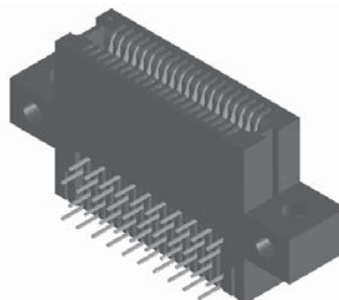
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

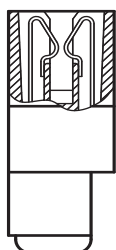
**.050" [1.27mm] Contact Centers, .915" Insulator Height  
Right Angle**

### SPECIFICATIONS

- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum

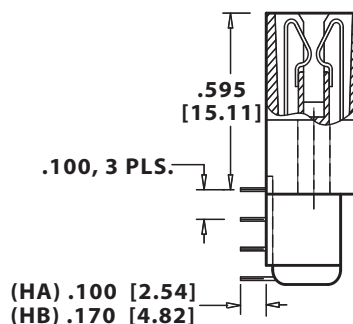


### READOUT

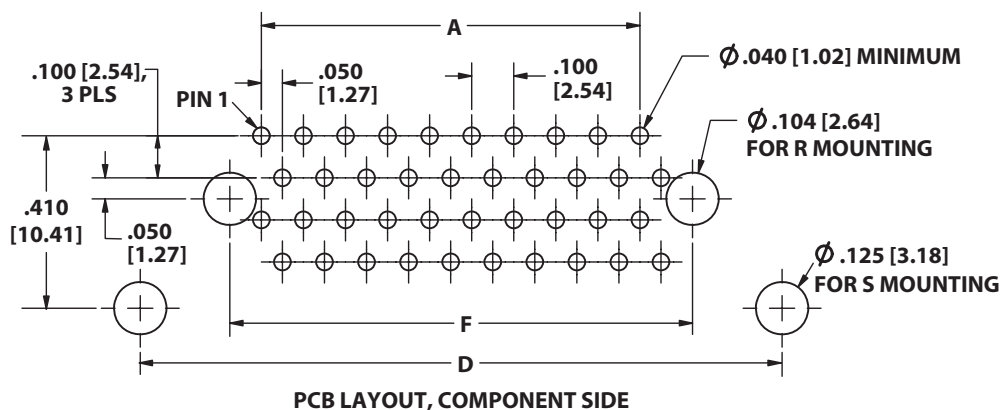


DUAL (D)

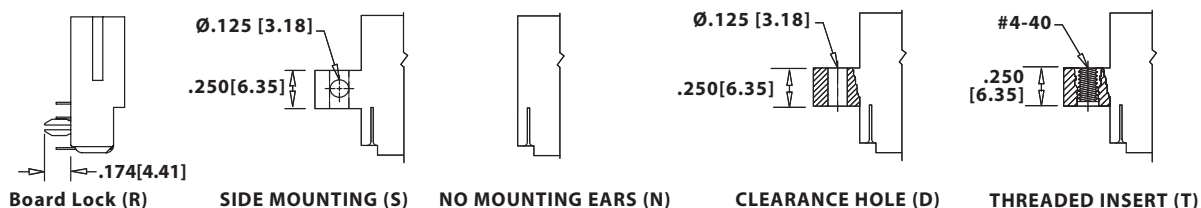
### TERMINATION TYPE



### PCB LAYOUT



### MOUNTING STYLE



**.050" [1.27mm] Contact Centers, .915" Insulator Height  
Right Angle**



**PART NUMBER CODING**

**MATERIALS (INSULATOR/CONTACT)**

G = PA9T/Phosphor Bronze  
R = PPS/Phosphor Bronze  
J = PA9T/Beryllium Copper  
A = PPS/Beryllium Copper  
(Consult Factory for Other Materials)

**CONTACT FINISH - RoHS Compliant**

All platings are Lead Free and have .000050" Nickel underplate  
**Contact Surface Termination**

B = .000010" Gold .000100" Pure Tin, Matte  
C = .000030" Gold .000100" Pure Tin, Matte

**CONTACT CENTERS**

B = .050" [1.27mm]

**G B B 10 D HA S - Sxxx**

**MODIFICATION CODE** (Consult Factory)  
OMIT FOR STANDARD

**MOUNTING STYLE (Opposite Page)**

S = Side Mounting  
D = Flush Mounting  
N = No Mounting  
T = Flush Mounting With Threaded Insert  
R = Metal Board Lock

**TERMINATION TYPE (Opposite Page)**

HA = .100" Staggered Dip Solder, Right Angle  
HB = .170" Staggered Dip Solder, Right Angle

**READOUT (Opposite Page)**

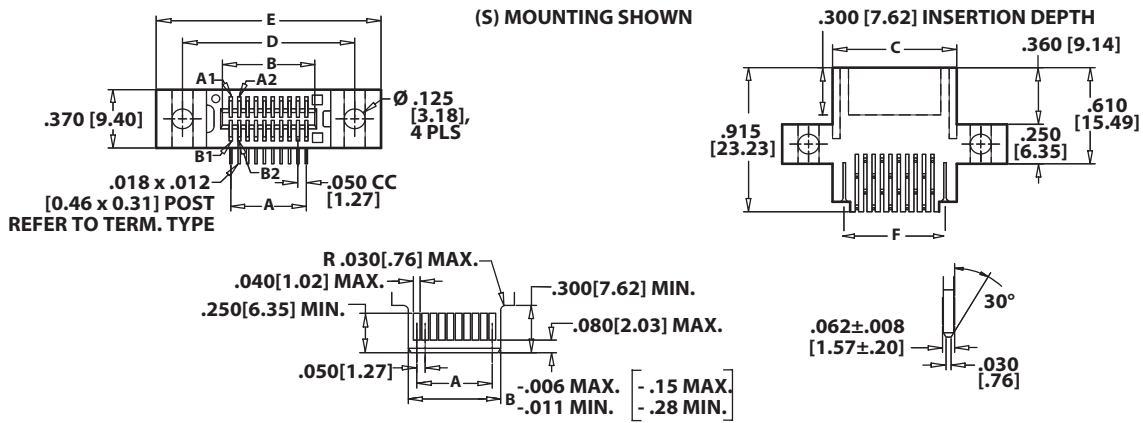
D = Dual

**NUMBER OF CONTACT POSITIONS**

See Chart Below

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES     |            |            |                   |            |            | [MILLIMETERS] |           |           |                   |           |           |
|------------------------|------------|------------|------------|-------------------|------------|------------|---------------|-----------|-----------|-------------------|-----------|-----------|
|                        | A<br>±.005 | B<br>±.005 | C<br>±.015 | D<br>±.010        | E<br>±.020 | F<br>±.010 | A<br>±.13     | B<br>±.13 | C<br>±.38 | D<br>±.25         | E<br>±.51 | F<br>±.25 |
| 05/10                  | 0.200      | 0.300      | 0.490      | 0.776             | 1.090      | 0.350      | 5.08          | 7.62      | 12.45     | 19.71             | 27.69     | 8.89      |
| 06/12                  | 0.250      | 0.350      | 0.540      | 0.826             | 1.140      | 0.400      | 6.35          | 8.89      | 13.72     | 20.98             | 28.96     | 10.16     |
| 09/18                  | 0.400      | 0.500      | 0.690      | 0.976             | 1.290      | 0.550      | 10.16         | 12.70     | 17.53     | 24.79             | 32.77     | 13.97     |
| 10/20                  | 0.450      | 0.550      | 0.740      | 1.026             | 1.340      | 0.600      | 11.43         | 13.97     | 18.80     | 26.06             | 34.04     | 15.24     |
| 13/26                  | 0.600      | 0.700      | 0.890      | 1.176             | 1.490      | 0.750      | 15.24         | 17.78     | 22.61     | 29.87             | 37.85     | 19.05     |
| 14/28                  | 0.650      | 0.750      | 0.940      | 1.226             | 1.540      | 0.800      | 16.51         | 19.05     | 23.88     | 31.14             | 39.12     | 20.32     |
| 15/30                  | 0.700      | 0.800      | 0.990      | 1.276             | 1.590      | 0.850      | 17.78         | 20.32     | 25.15     | 32.41             | 40.39     | 21.59     |
| 20/40                  | 0.950      | 1.050      | 1.240      | 1.526             | 1.840      | 1.100      | 24.13         | 26.67     | 31.50     | 38.76             | 46.74     | 27.94     |
| 22/44                  | 1.050      | 1.150      | 1.340      | 1.626             | 1.940      | 1.200      | 26.67         | 29.21     | 34.04     | 41.30             | 49.28     | 30.48     |
| 24/48                  | 1.150      | 1.250      | 1.440      | 1.726             | 2.040      | 1.300      | 29.21         | 31.75     | 36.58     | 43.84             | 51.82     | 33.02     |
| 25/50                  | 1.200      | 1.300      | 1.490      | 1.776             | 2.090      | 1.350      | 30.48         | 33.02     | 37.85     | 45.11             | 53.09     | 34.29     |
| 30/60                  | 1.450      | 1.550      | 1.740      | 2.026             | 2.340      | 1.600      | 36.83         | 39.37     | 44.20     | 51.46             | 59.44     | 40.64     |
| 34/68                  | 1.650      | 1.750      | 1.940      | 2.226             | 2.540      | 1.800      | 41.91         | 44.45     | 49.28     | 56.54             | 64.52     | 45.72     |
| 35/70                  | 1.700      | 1.800      | 1.990      | 2.276             | 2.590      | 1.850      | 43.18         | 45.72     | 50.55     | 57.81             | 65.79     | 46.99     |
| 40/80                  | 1.950      | 2.050      | 2.240      | 2.526             | 2.840      | 2.100      | 49.53         | 52.07     | 56.90     | 64.16             | 72.14     | 53.34     |
| 45/90                  | 2.200      | 2.300      | 2.490      | 2.776             | 3.090      | 2.350      | 55.88         | 58.42     | 63.25     | 70.51             | 78.49     | 59.69     |
| 50/100                 | 2.450      | 2.550      | 2.740      | 3.026             | 3.340      | 2.600      | 62.23         | 64.77     | 69.60     | 76.86             | 84.84     | 66.04     |
| 55/110                 | 2.700      | 2.800      | 2.990      | 3.276             | 3.590      | 2.850      | 68.58         | 71.12     | 75.95     | 83.21             | 91.19     | 72.39     |
| 60/120                 | 2.950      | 3.050      | 3.240      | 3.526             | 3.840      | 3.100      | 74.93         | 77.47     | 82.30     | 89.56             | 97.54     | 78.74     |
| 64/128                 | 3.150      | 3.250      | 3.440      | 3.726             | 4.040      | 3.300      | 80.01         | 82.55     | 87.38     | 94.64             | 102.62    | 83.82     |
| 65/130                 | 3.200      | 3.300      | 3.490      | 3.776             | 4.090      | 3.350      | 81.28         | 83.82     | 88.65     | 95.91             | 103.89    | 85.09     |
| 66/132                 | 3.250      | 3.350      | 3.540      | 3.826             | 4.140      | 3.400      | 82.55         | 85.09     | 89.92     | 97.18             | 105.16    | 86.36     |
| 70/140                 | 3.450      | 3.550      | 3.740      | 4.026             | 4.340      | 3.600      | 87.63         | 90.17     | 95.00     | 102.26            | 110.24    | 91.44     |
| 75/150                 | 3.700      | 3.800      | 3.990      | 4.276             | 4.590      | 3.850      | 93.98         | 96.52     | 101.35    | 108.61            | 116.59    | 97.79     |
| 80/160                 | 3.950      | 4.050      | 4.240      | 4.526             | 4.840      | 4.100      | 100.33        | 102.87    | 107.70    | 114.96            | 122.94    | 104.14    |
| 85/170                 | 4.200      | 4.300      | 4.490      | 4.776             | 5.090      | 4.350      | 106.68        | 109.22    | 114.05    | 121.31            | 129.29    | 110.49    |
| 90/180                 | 4.450      | 4.550      | 4.740      | 5.026             | 5.340      | 4.600      | 113.03        | 115.57    | 120.40    | 127.66            | 135.64    | 116.84    |
| 95/190                 | 4.700      | 4.800      | 4.990      | 5.276             | 5.590      | 4.850      | 119.38        | 121.92    | 126.75    | 134.01            | 141.99    | 123.19    |
| 100/200                | 4.950      | 5.050      | 5.240      | 5.526             | 5.840      | 5.100      | 125.73        | 128.27    | 133.10    | 140.36            | 148.34    | 129.54    |
| 105/210                | 5.200      | 5.300      | 5.490      | 5.776             | 6.090      | 5.350      | 132.08        | 134.62    | 139.45    | 146.71            | 154.69    | 135.89    |
| 108/216                | 5.350      | 5.450      | 5.640      | 5.926             | 6.240      | 5.500      | 135.89        | 138.43    | 143.26    | 150.52            | 158.50    | 139.70    |
| 110/220                | 5.450      | 5.550      | 5.740      | 6.026             | 6.340      | 5.600      | 138.43        | 140.97    | 145.80    | 153.06            | 161.04    | 142.24    |
| 120/240                | 5.950      | 6.050      | 6.240      | 'N' Mounting Only |            | 6.100      | 151.13        | 153.67    | 158.50    | 'N' Mounting Only |           | 154.94    |



## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

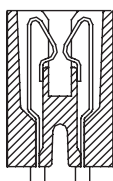
**.050" [1.27mm] Contact Centers, .610" Insulator Height**  
**[MCA] Dip Solder/Card Extender/SMT**

Industry Standard Part

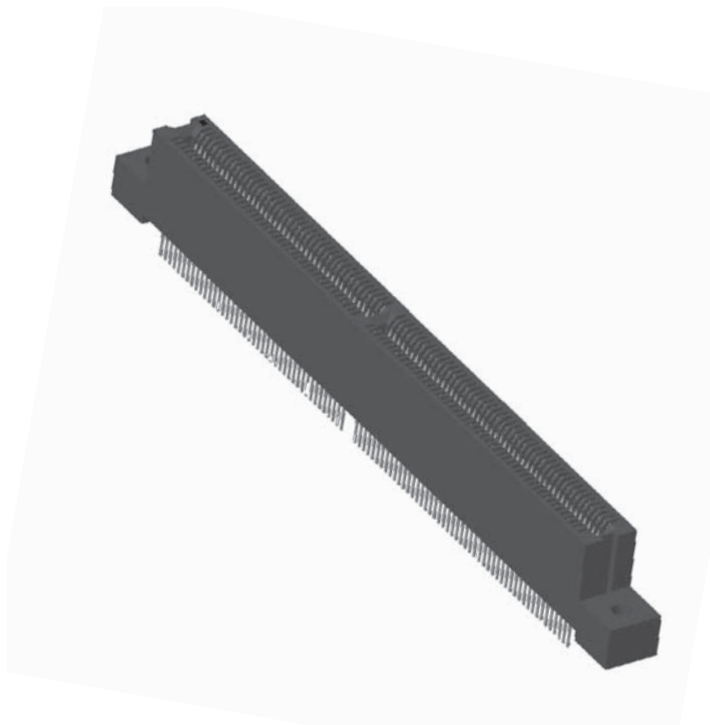
### SPECIFICATIONS

- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board (Consult factory for other board thicknesses)
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum

### READOUT

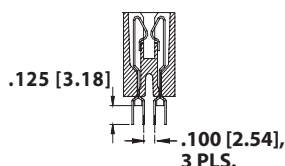


DUAL (D)

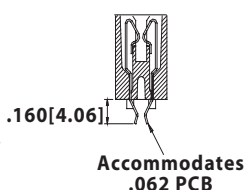


### TERMINATION TYPE

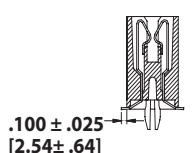
Consult Factory for PC Board Layouts



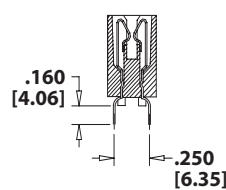
STAGGERED DIP SOLDER (HH)



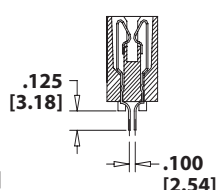
CARD EXTENDER (HR)



SURFACE MOUNT (HF)

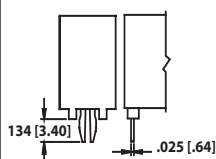


DIP SOLDER (HL)



DIP SOLDER (HN)

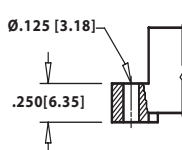
### MOUNTING STYLE



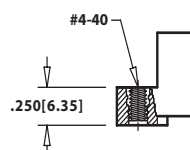
BOARD LOCK (R)



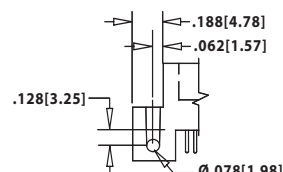
NO MOUNTING EARS (N)



FLUSH MOUNTING (D)



FLUSH MOUNTING WITH THREADED INSERT (T)



STRADDLE MOUNT (Q)



**.050" [1.27mm] Contact Centers, .610" Insulator Height**  
**[MCA] Dip Solder/Card Extender/SMT**

Industry Standard Part

**PART NUMBER CODING**

**MATERIALS (Insulator/Contact)**

G = PA9T/Phosphor Bronze  
R = PPS/Phosphor Bronze  
J = PA9T/Beryllium Copper  
A = PPS/Beryllium Copper  
(Consult Factory for Other Materials)

**CONTACT FINISH - RoHS Compliant**

All platings are Lead Free and have .000050" Nickel underplate  
**Contact Surface Termination**

B = .000010" Gold .000100" Pure Tin, Matte  
C = .000030" Gold .000100" Pure Tin, Matte

**CONTACT CENTERS**

B = .050" [1.27mm]

**NUMBER OF CONTACT POSITIONS**

56, 66, 91, 106

**G B B 56 D HH D - S578**

**MODIFICATION (Consult Factory)**

-S578 = Card Slot Barriers With Guide Posts  
-S621 = Card Slot Barriers Without Guide Posts

**MOUNTING STYLE**

N = No Mounting  
D = Flush Mounting  
T = Flush Mounting With Threaded Insert  
Q = Straddle Mount (Card Extender Only)  
R = Metal Board Lock

**TERMINATION TYPE**

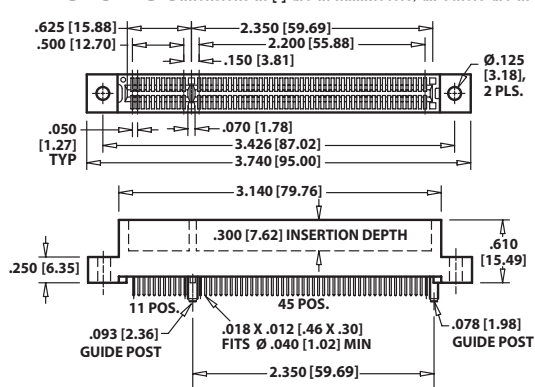
HH = Staggered Dip Solder  
HR = Card Extender  
HF = Surface Mount  
HL = .250" [6.35mm] x .160" [4.06mm] Dip Solder  
HN = .100" [2.54mm] x .125" [3.18mm] Dip Solder  
(REPLACES TERMINATIONS: CH, CR, CF, CL, CN)

**READOUT**

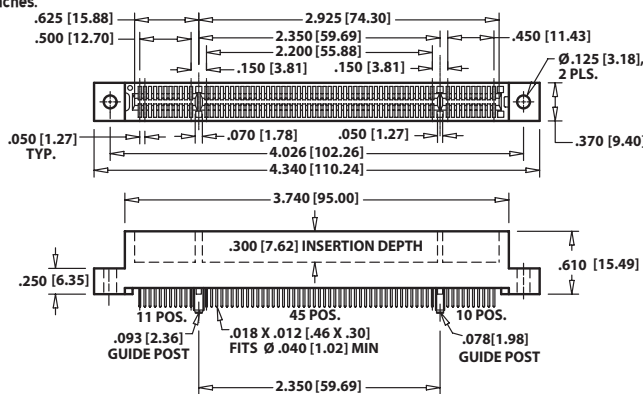
D = Dual

**DIMENSIONS**

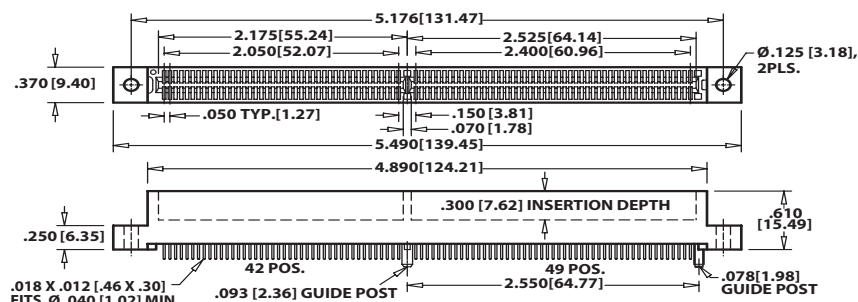
Dimensions in [ ] are in millimeters, all others are in inches.



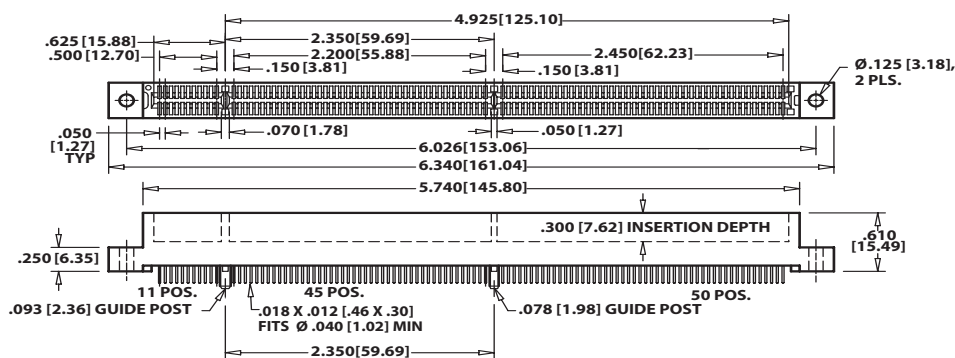
**GBB56DHHD-S578, 56 (11/45) POSITIONS**



**GBB66DHHD-S578, 66 (11/45/10) POSITIONS**



**GBB91DHHD-S578, 91 (42/49) POSITIONS**



**GBB106DHHD-S578, 106 (11/45/50) POSITIONS**

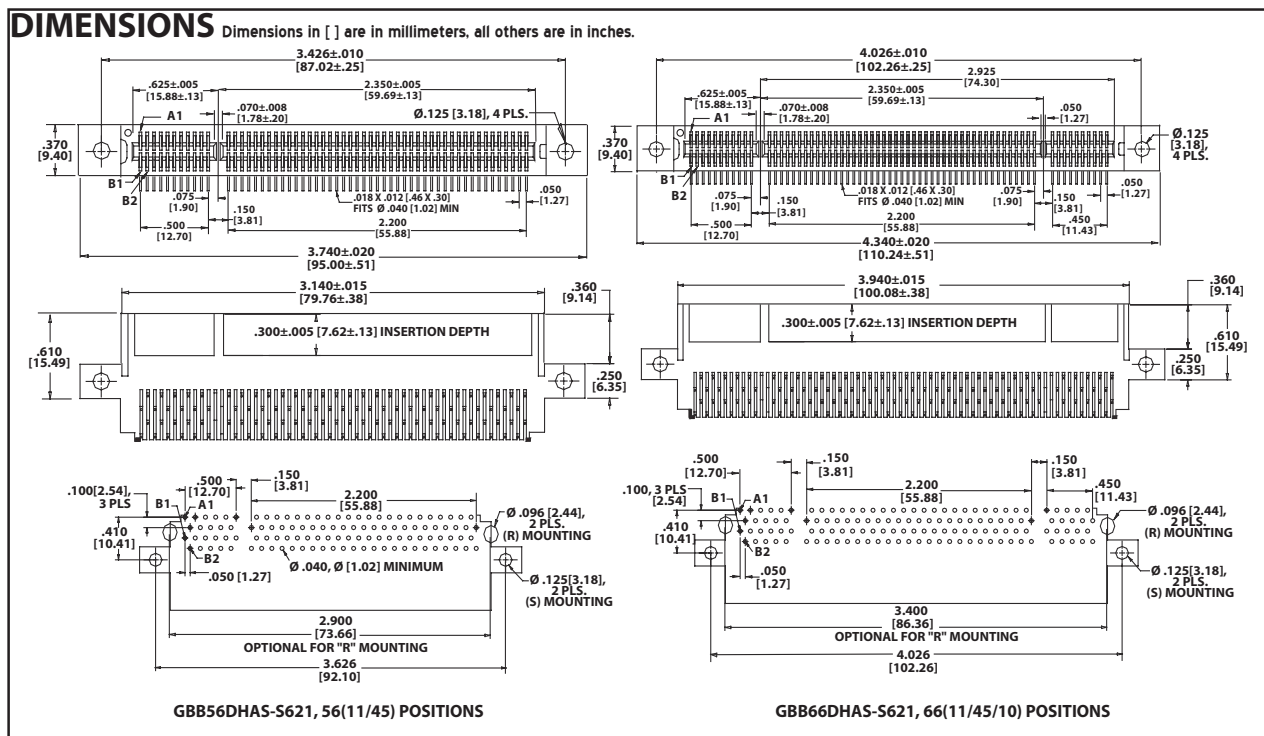


## Sullins Edgecards

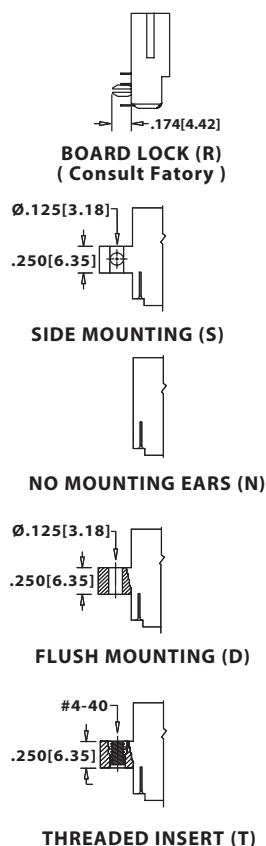
**.050" [1.27mm] Contact Centers, .915" Insulator Height**  
**[MCA] Right Angle**

**MICROPLASTICS**  
**SULLINS**

Industry Standard Part

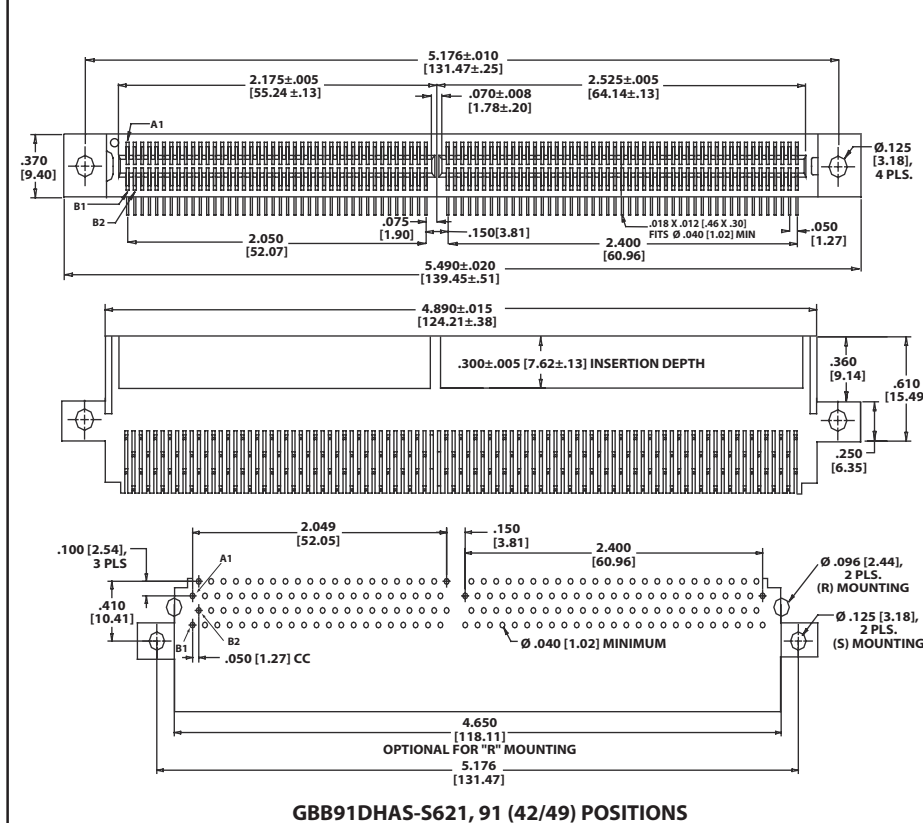


## MOUNTING STYLE



## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



**.050" [1.27mm] Contact Centers, .915" Insulator Height  
[MCA] Right Angle**

Industry Standard Part

**PART NUMBER CODING**

**MATERIALS (Insulator/Contact)**

G = PA9T/Phosphor Bronze  
R = PPS/Phosphor Bronze  
J = PA9T/Beryllium Copper  
A = PPS/Beryllium Copper  
(Consult Factory for Other Materials)

**CONTACT FINISH - RoHS Compliant**

All platings are Lead Free and have .000050" Nickel underplate

**Contact Surface Termination**  
B = .000010" Gold .000100" Pure Tin, Matte  
C = .000030" Gold .000100" Pure Tin, Matte

**CONTACT CENTERS**

B = .050" [1.27mm]

**G B B 56 D HA D - S621**

**MODIFICATION (CONSULT FACTORY)**

-S621 = Card Slot Barriers Without Guide Posts

**MOUNTING STYLE (Opposite Page)**

S = Side Mounting  
D = Flush Mounting  
N = No Mounting  
T = Flush Mounting With Threaded Insert  
R = Metal Board Lock

**TERMINATION TYPE**

HA = .100" [2.54] Staggered Dip Solder, Right Angle  
HB = .170" [4.32] Staggered Dip Solder, Right Angle

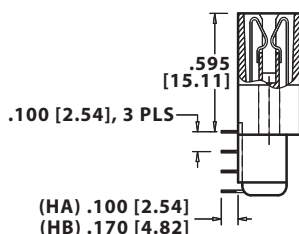
**READOUT**

D = Dual

**NUMBER OF CONTACT POSITIONS**

56 = 11/45  
66 = 11/45/10  
91 = 42/49  
106 = 11/45/50

**TERMINATION TYPE**

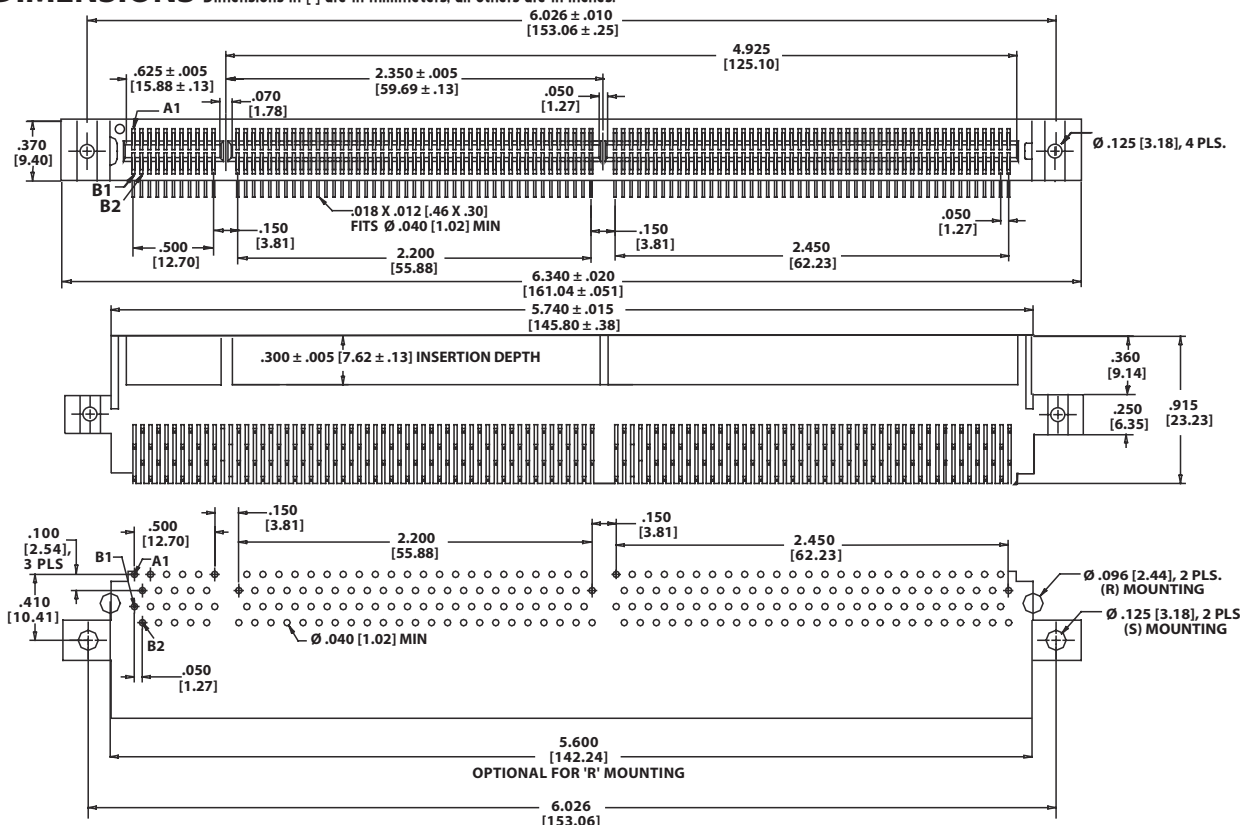


**SPECIFICATIONS**

- Accommodates .062" ± .008" [1.57 ± .20] PC board
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



**BOARD LAYOUT, CONNECTOR SIDE  
GBB106DHAS-S621, 64 BIT, 5 VOLT**



## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

**.050" [1.27mm] Contact Centers, .610" Insulator Height**  
**[PCI] Dip Solder/Card Extender/SMT**

Industry Standard Part

### SPECIFICATIONS

- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum

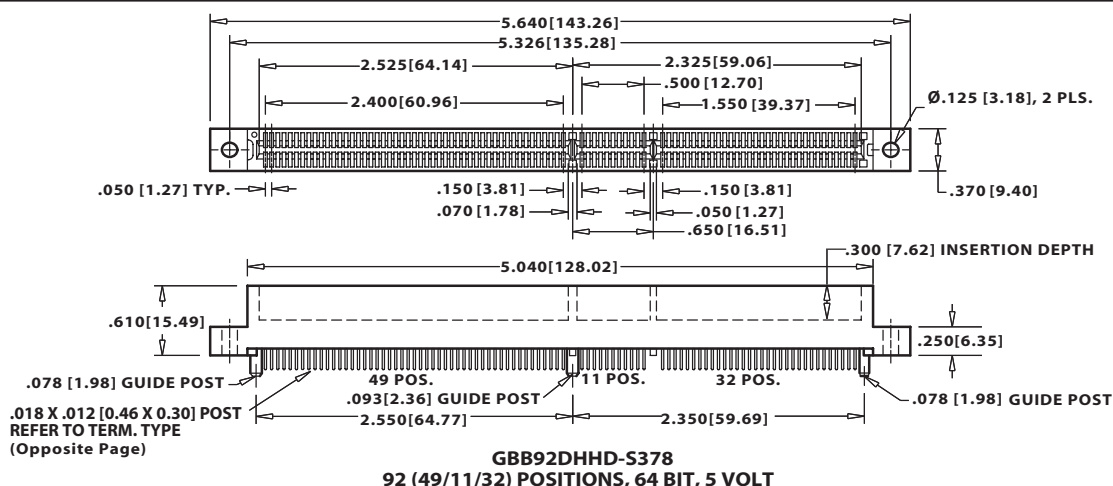
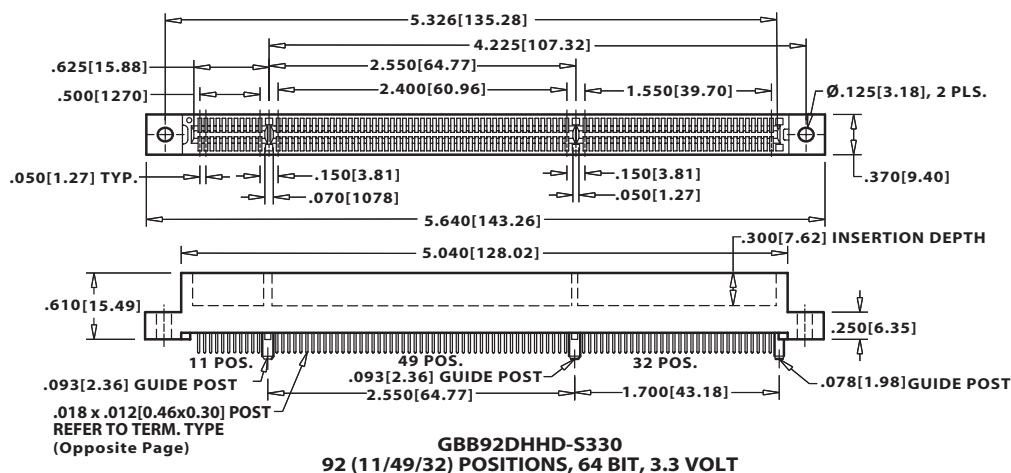
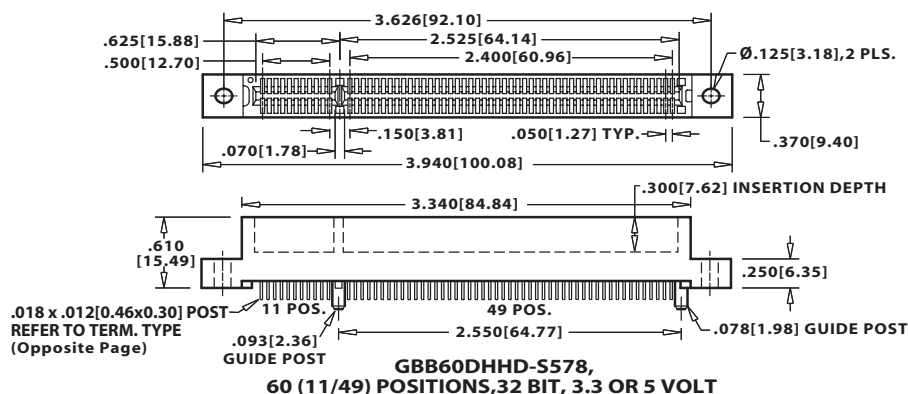
### READOUT



**DUAL (D)**

### DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.





**.050" [1.27mm] Contact Centers, .610" Insulator Height  
[PCI] Dip Solder/Card Extender/SMT**

Industry Standard Part

**PART NUMBER CODING**

**G B B 60 D HH D - S578**

**MATERIALS (Insulator/Contact)**

G = PA9T/Phosphor Bronze  
R = PPS/Phosphor Bronze  
J = PA9T/Beryllium Copper  
A = PPS/Beryllium Copper  
(Consult Factory for Other Materials)

**CONTACT FINISH - RoHS Compliant**

All platings are Lead Free and have .000050" Nickel underplate

**Contact Surface**

B = .000010" Gold  
C = .000030" Gold

**Termination**

.000100" Pure Tin, Matte  
.000100" Pure Tin, Matte

**CONTACT CENTERS**

B = .050" [1.27mm]

**NUMBER OF CONTACT POSITIONS**

60 = 11/49 (32 Bit, 3.3 or 5 Volt)  
92 = 11/49/32 (64 Bit, 3.3 Volt)  
or 92 = 49/11/32 (64 Bit, 5 Volt)

**READOUT**

D = Dual

**MODIFICATION (CONSULT FACTORY)**

**PCI WITH GUIDE POSTS**

\*-S578 = 60 (11/49) Positions(32 Bit, 3.3 or 5 Volt)  
-S330 = 92 (11/49/32) Positions(64 Bit, 3.3 Volt)  
-S378 = 92 (49/11/32) Positions(64 Bit, 5 Volt)

**PCI WITHOUT GUIDE POSTS**

\*-S621 = 60 (11/49) Positions(32 Bit, 3.3 or 5 Volt)  
-S329 = 92 (11/49/32) Positions(64 Bit, 3.3 Volt)  
-S250 = 92 (49/11/32) Positions(64 Bit, 5 Volt)

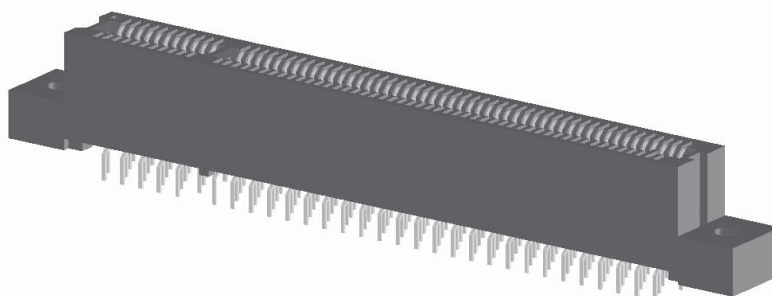
\* Turn connector or board 180° to switch from 3.3 to 5 volt

**MOUNTING STYLE**

D = Flush Mounting  
N = No Mounting  
T = Flush Mounting With Threaded Insert  
Q = Straddle Mount (Card Extender Only)  
R = Metal Boardlocks

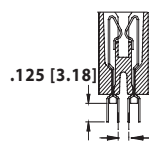
**TERMINATION TYPE**

HH = Staggered Dip Solder  
HR = Card Extender  
HF = Surface Mount  
HL = .250" [6.35mm] x .160" [4.06mm] Dip Solder  
HN = .100" [2.54mm] x .125" [3.18mm] Dip Solder  
(REPLACES TERMINATIONS: CH, CR, CF, CL, CN)

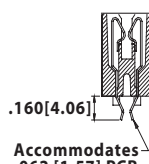


FOR PC BOARD LAYOUTS REFER TO [www.sullinscorp.com](http://www.sullinscorp.com)

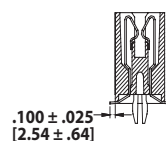
**TERMINATION TYPE**



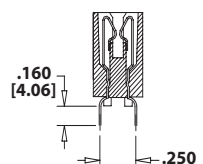
**STAGGERED DIP SOLDER  
(HH)**



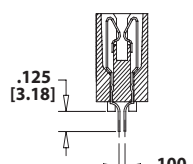
**CARD EXTENDER  
(HR)**



**SURFACE MOUNT  
(HF)**



**DIP SOLDER  
(HL)**

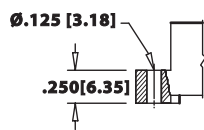


**DIP SOLDER  
(HN)**

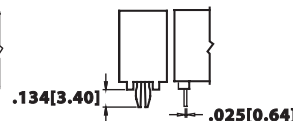
**MOUNTING STYLE**



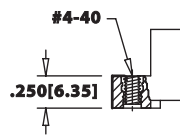
**NO MOUNTING EARS  
(N)**



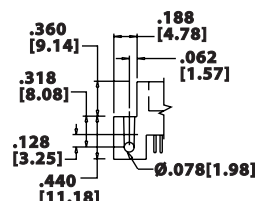
**FLUSH MOUNTING  
(D)**



**METAL BOARD LOCK (R)**



**FLUSH MOUNTING  
WITH THREADED INSERT  
(T)**



**STRADDLE MOUNT (Q)  
Formerly (Z)**



## Sullins Edgecards

**MICROPLASTICS**  
**SULLINS**

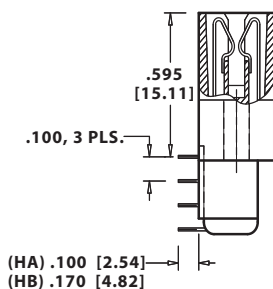
### .050" [1.27mm] Contact Centers, .915" Insulator Height [PCI] Right Angle

Industry Standard Part

#### SPECIFICATIONS

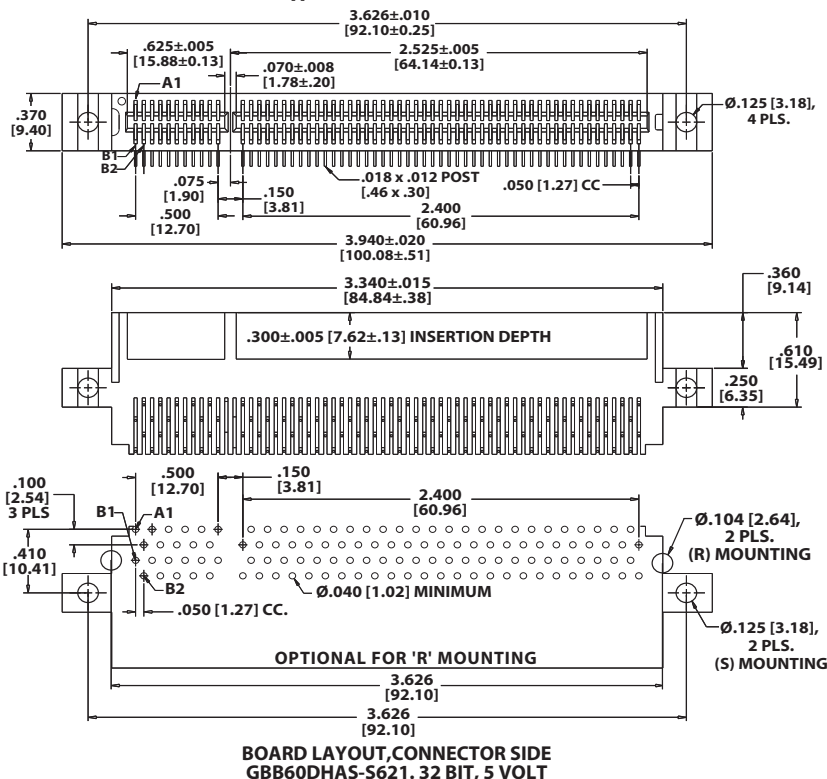
- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum

#### TERMINATION TYPE



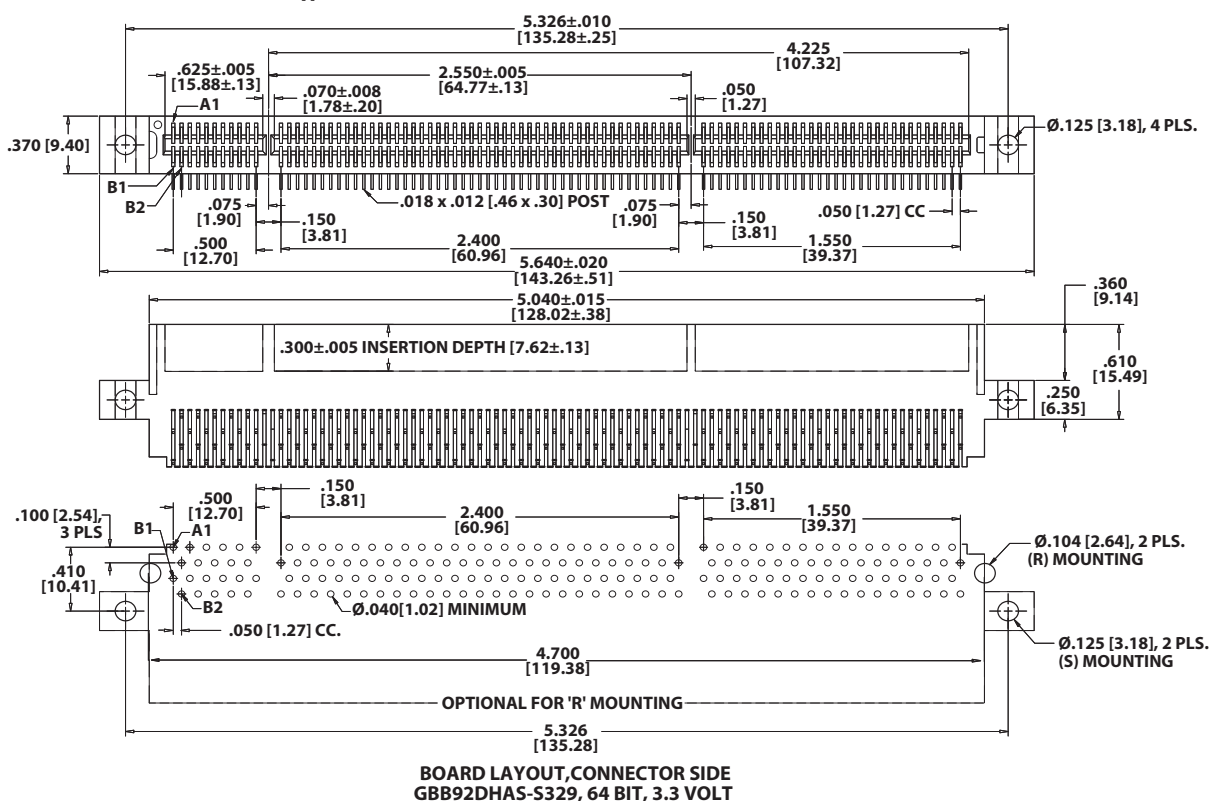
#### DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



#### DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



**.050" [1.27mm] Contact Centers, .915" Insulator Height  
[PCI] Right Angle**

Industry Standard Part

**PART NUMBER CODING**

**MATERIALS (Insulator/Contact)**

G = PA9T/Phosphor Bronze  
R = PPS/Phosphor Bronze  
J = PA9T/Beryllium Copper  
A = PPS/Beryllium Copper  
(Consult Factory for Other Materials)

**CONTACT FINISH - RoHS Compliant**

All platings are Lead Free and have .000050" Nickel underplate  
**Contact Surface Termination**

B = .000100" Gold .000100" Pure Tin, Matte  
C = .000030" Gold .000100" Pure Tin, Matte

**CONTACT CENTERS**

B = .050" [1.27mm]

**NUMBER OF CONTACT POSITIONS**

60 = 11/49 (32 Bit, 3.3 or 5 Volt)  
92 = 11/49/32 (64 Bit, 3.3 Volt)  
or 92 = 49/11/32 (64 Bit, 5 Volt)

**G B B 60 D HA D - S793**

**MODIFICATION (CONSULT FACTORY)**

-S793 = 60(49/11) Reverse Bend (32 Bit, 3.3 Volt)  
-S621 = 60(11/49) Positions (32 Bit, 5 Volt)  
-S329 = 92(11/49/32) Positions (64 Bit, 3.3 Volt)  
-S250 = 92(49/11/32) Positions (64 Bit, 5 Volt)

**MOUNTING STYLE**

S = Side Mounting  
D = Flush Mounting  
N = No Mounting  
T = Flush Mounting With Threaded Insert  
R = Metal Board Lock

**TERMINATION TYPE (Opposite Page)**

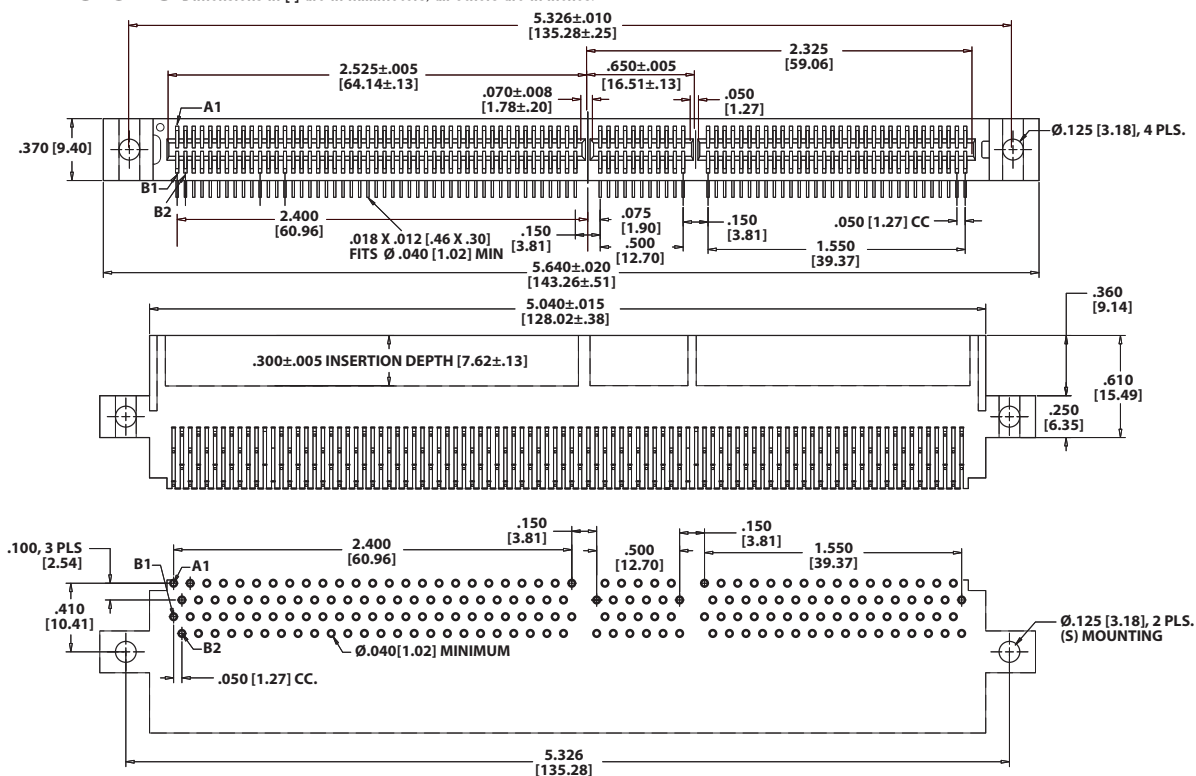
HA = .100" [2.54mm] Staggered Dip Solder  
HB = .170" [4.32mm] Staggered Dip Solder

**READOUT**

D = Dual

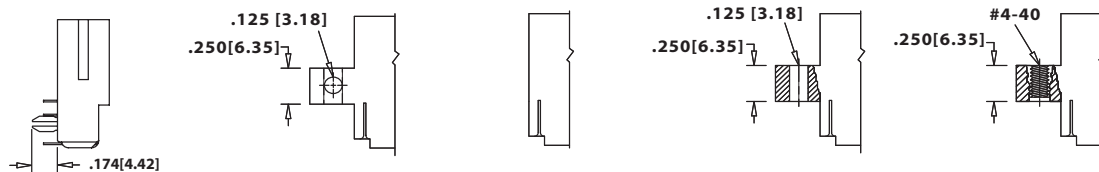
**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



**BOARD LAYOUT, CONNECTOR SIDE  
GBB92DHAS-S250, 64 BIT, 5 VOLT**

**MOUNTING STYLE**



**BOARD LOCK (R)**

**SIDE MOUNTING (S)**

**NO MOUNTING EARS (N)**

**FLUSH MOUNTING (D)**

**THREADED INSERT (T)**



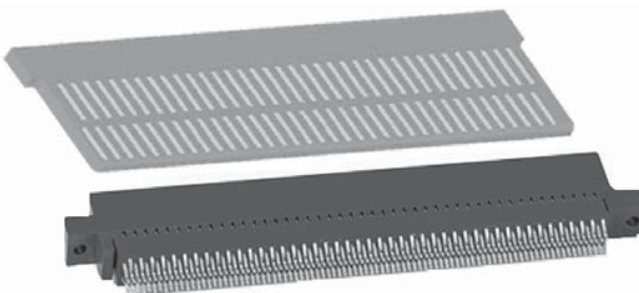
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

### Bi-Level, .050" [1.27mm] / .100" [2.54] Contact Centers High Density, Card Extender, Dip Solder

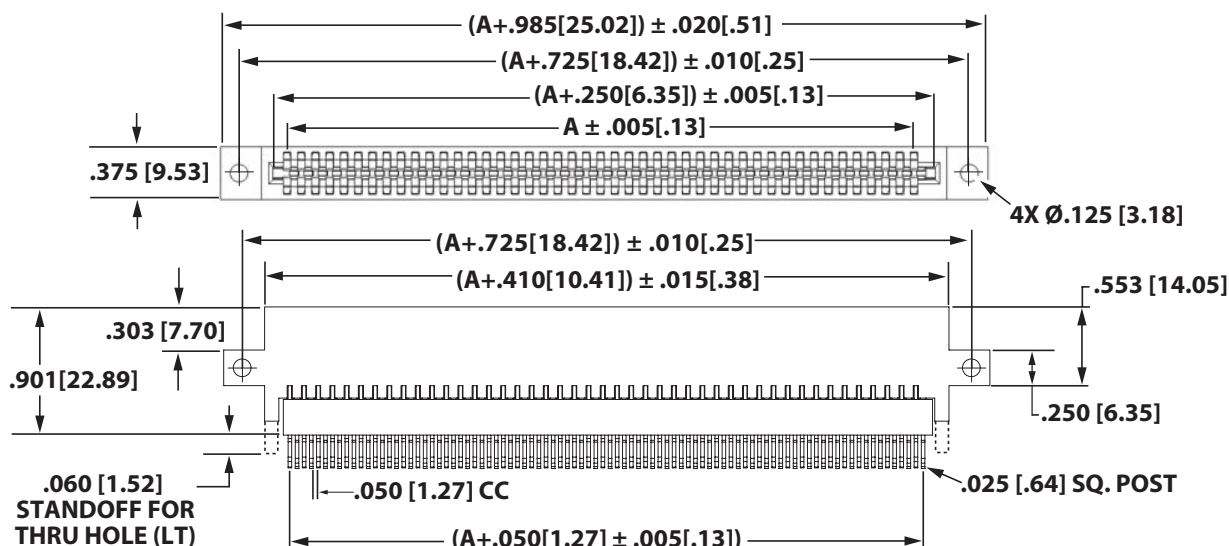
#### SPECIFICATIONS

- .050" Contact Center Spacing can replace .100" CC parts to double the number of contacts within the same area
- Backwards Compatible with Daughter Card Side
- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board
- Contact Material: Beryllium Copper or Phosphor Bronze
- Body Material: PPS/PA9T
- UL Flammability: 94V-0
- 3 amp current rating per contact
- 75 grams minimum contact normal force
- Voltage Rating: 125 VDC Minimum at sea level
- Consult Factory for PC board layouts/technical drawings

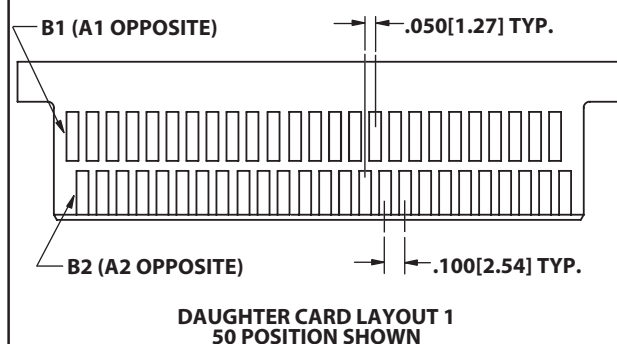


**HIGH DENSITY   HIGH TEMPERATURE   HIGH CYCLE   HIGH RELIABILITY**

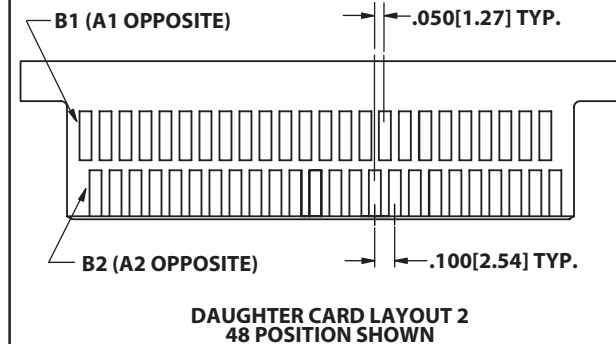
#### DIMENSIONS



#### DAUGHTER CARD LAYOUT (1)



#### DAUGHTER CARD LAYOUT (2)



**Bi-Level, .050" [1.27mm] / .100" [2.54] Contact Centers**  
**High Density, Card Extender, Dip Solder**

**PART NUMBER CODING**

**MATERIALS (INSULATOR/CONTACT)**

- G = PA9T/Phosphor Bronze  
Operating Temperature: 125°C  
R = PPS and PA9T/Phosphor Bronze  
Operating Temperature: 125°C  
J = PA9T/Beryllium Copper  
Operating Temperature: 150°C  
A = PPS and PA9T/Beryllium Copper  
Operating Temperature: 150°C

**CONTACT FINISH - RoHS Compliant**

All platings are Lead Free and have .000050" Nickel underplate

**Contact Surface**

- B = .000010" Gold .000100" Pure Tin, Matte  
C = .000030" Gold .000100" Pure Tin, Matte  
Y = .000030" Gold .000005" Gold

**CONTACT CENTERS**

- B = .050" [1.27mm]

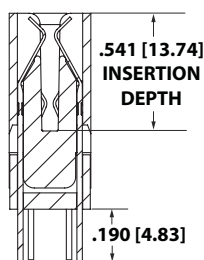
**A C B 10 D LT H - Sxxx**

**MODIFICATION CODE** (Consult Factory)  
OMIT FOR STANDARD

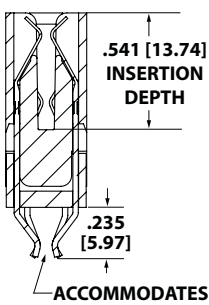
| Positions | Dimension A<br>(see opposite page) |        |        | Daughter<br>Card<br>Layout |
|-----------|------------------------------------|--------|--------|----------------------------|
|           | No. of<br>Contacts                 | Inches | [MM]   |                            |
| 06        | 12                                 | 0.200  | 5.08   | 1                          |
| 08        | 16                                 | 0.300  | 7.62   | 2                          |
| 10        | 20                                 | 0.400  | 10.16  | 1                          |
| 12        | 24                                 | 0.500  | 12.70  | 2                          |
| 14        | 28                                 | 0.600  | 15.24  | 1                          |
| 16        | 32                                 | 0.700  | 17.78  | 2                          |
| 18        | 36                                 | 0.800  | 20.32  | 1                          |
| 20        | 40                                 | 0.900  | 22.86  | 2                          |
| 22        | 44                                 | 1.000  | 25.40  | 1                          |
| 24        | 48                                 | 1.100  | 27.94  | 2                          |
| 26        | 52                                 | 1.200  | 30.48  | 1                          |
| 28        | 56                                 | 1.300  | 33.02  | 2                          |
| 30        | 60                                 | 1.400  | 35.56  | 1                          |
| 32        | 64                                 | 1.500  | 38.10  | 2                          |
| 34        | 68                                 | 1.600  | 40.64  | 1                          |
| 36        | 72                                 | 1.700  | 43.18  | 2                          |
| 38        | 76                                 | 1.800  | 45.72  | 1                          |
| 40        | 80                                 | 1.900  | 48.26  | 2                          |
| 42        | 84                                 | 2.000  | 50.80  | 1                          |
| 44        | 88                                 | 2.100  | 53.34  | 2                          |
| 46        | 92                                 | 2.200  | 55.88  | 1                          |
| 48        | 96                                 | 2.300  | 58.42  | 2                          |
| 50        | 100                                | 2.400  | 60.96  | 1                          |
| 52        | 104                                | 2.500  | 63.50  | 2                          |
| 54        | 108                                | 2.600  | 66.04  | 1                          |
| 56        | 112                                | 2.700  | 68.58  | 2                          |
| 58        | 116                                | 2.800  | 71.12  | 1                          |
| 60        | 120                                | 2.900  | 73.66  | 2                          |
| 62        | 124                                | 3.000  | 76.20  | 1                          |
| 64        | 128                                | 3.100  | 78.74  | 2                          |
| 66        | 132                                | 3.200  | 81.28  | 1                          |
| 68        | 136                                | 3.300  | 83.82  | 2                          |
| 70        | 140                                | 3.400  | 86.36  | 1                          |
| 72        | 144                                | 3.500  | 88.90  | 2                          |
| 74        | 148                                | 3.600  | 91.44  | 1                          |
| 76        | 152                                | 3.700  | 93.98  | 2                          |
| 78        | 156                                | 3.800  | 96.52  | 1                          |
| 80        | 160                                | 3.900  | 99.06  | 2                          |
| 82        | 164                                | 4.000  | 101.60 | 1                          |
| 84        | 168                                | 4.100  | 104.14 | 2                          |
| 86        | 172                                | 4.200  | 106.68 | 1                          |
| 88        | 176                                | 4.300  | 109.22 | 2                          |
| 90        | 180                                | 4.400  | 111.76 | 1                          |

**TERMINATION**

**DIP SOLDER  
LT**



**CARD EXTENDER  
LR**



**MOUNTING STYLE**

|   |                                                      |  |
|---|------------------------------------------------------|--|
| H | MOUNTING HOLES                                       |  |
| S | SIDE MOUNTING HOLES                                  |  |
| I | #4-40 THREADED INSERTS                               |  |
| A | #4-40 THREADED INSERTS IN SIDE HOLES                 |  |
| Z | FLUSH EARS WITH SIDE MOUNTING HOLES                  |  |
| D | FLUSH EARS WITH .125 HOLES                           |  |
| T | FLUSH EARS WITH #4-40 THREADED INSERTS               |  |
| V | FLUSH EARS WITH #4-40 THREADED INSERTS IN SIDE HOLES |  |
| N | NO MOUNTING EARS                                     |  |



## Sullins Edgecards

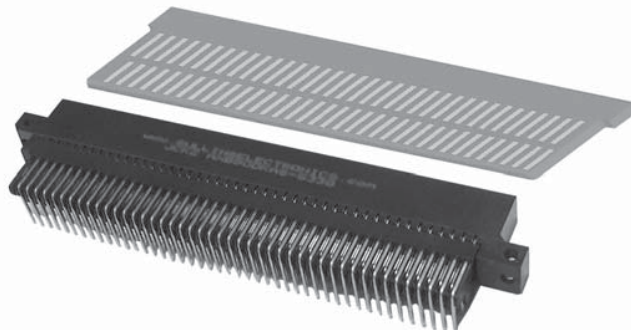
**Bi-Level, .050" [1.27mm] / .100" [2.54] Contact Centers**  
**High Density, Right Angle**

**MICROPLASTICS**  
**SULLINS**

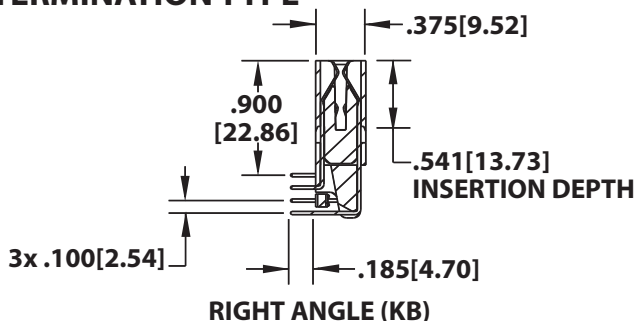
U.S. Patent NO. US 6,790,054 B1

### SPECIFICATIONS

- .050" Contact Center Spacing can replace .100" CC parts to double the number of contacts within the same area
- Backwards Compatible with Daughter Card Side
- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board
- Contact Material: Beryllium Copper or Phosphor Bronze
- Body Material: PPS/PA9T
- UL Flammability: 94V-0
- 3 amp current rating per contact
- 75 grams minimum contact normal force
- Voltage Rating: 125 VDC Minimum at sea level
- Consult Factory for PC board layouts/technical drawings



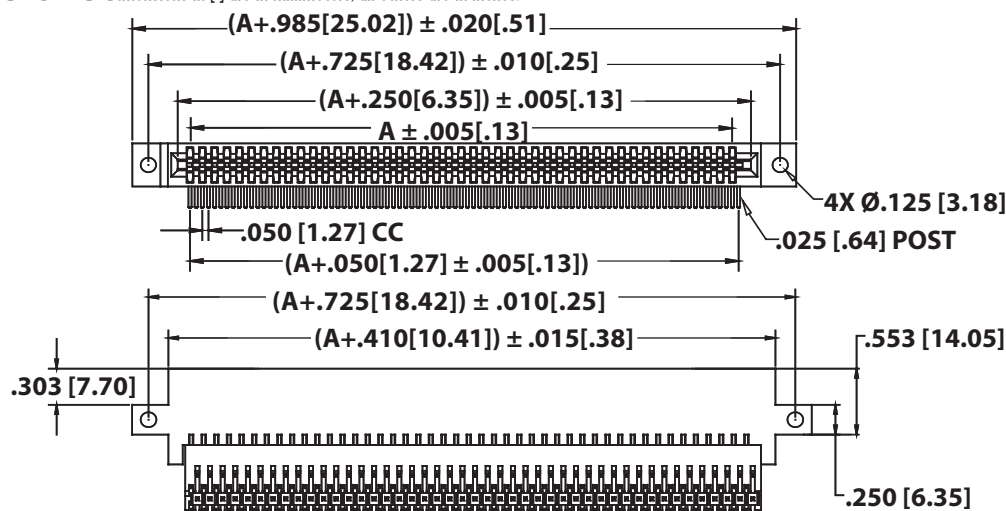
### TERMINATION TYPE



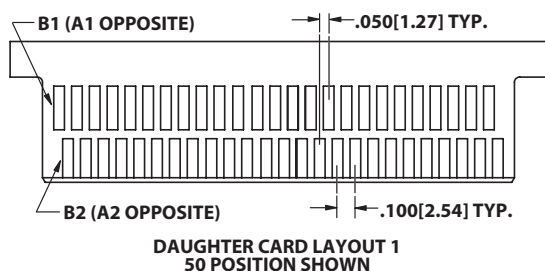
**HIGH DENSITY**  
**HIGH TEMPERATURE**  
**HIGH CYCLE**  
**HIGH RELIABILITY**

### DIMENSIONS

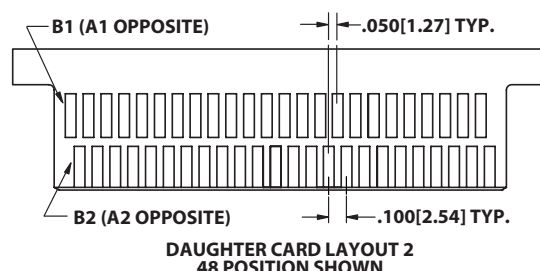
Dimensions in [ ] are in millimeters, all others are in inches.



### DAUGHTER CARD LAYOUT (1)



### DAUGHTER CARD LAYOUT (2)





**PART NUMBER CODING**

**MATERIALS (INSULATOR/CONTACT)**

- G = PA9T/Phosphor Bronze  
Operating Temperature: 125°C
- R = PPS and PA9T/Phosphor Bronze  
Operating Temperature: 125°C
- J = PA9T/Beryllium Copper  
Operating Temperature: 150°C
- A = PPS and PA9T/Beryllium Copper  
Operating Temperature: 150°C

**CONTACT FINISH - RoHS Compliant**

All platings are Lead Free and have .000050" Nickel underplate

**Contact Surface**

- B = .000010" Gold
- C = .000030" Gold
- Y = .000030" Gold

**Termination**

- .000100" Pure Tin, Matte
- .000100" Pure Tin, Matte
- .000005" Gold

**CONTACT CENTERS**

- B = .050" [1.27mm]

A C B 10 D KB S - S1075

OMIT FOR STANDARD

S - S1075 = Staggered Ears with  
Side Mounting Holes

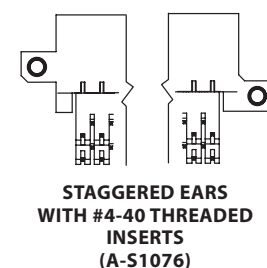
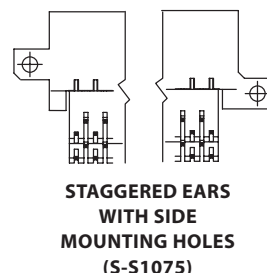
A - S1076 = Staggered Ears with  
#4-40 Threaded Inserts

| Positions | Dimension A<br>(see opposite page) |        |        | Daughter<br>Card<br>Layout |
|-----------|------------------------------------|--------|--------|----------------------------|
|           | No. of<br>Contacts                 | Inches | [MM]   |                            |
| 06        | 12                                 | 0.200  | 5.08   | 1                          |
| 08        | 16                                 | 0.300  | 7.62   | 2                          |
| 10        | 20                                 | 0.400  | 10.16  | 1                          |
| 12        | 24                                 | 0.500  | 12.70  | 2                          |
| 14        | 28                                 | 0.600  | 15.24  | 1                          |
| 16        | 32                                 | 0.700  | 17.78  | 2                          |
| 18        | 36                                 | 0.800  | 20.32  | 1                          |
| 20        | 40                                 | 0.900  | 22.86  | 2                          |
| 22        | 44                                 | 1.000  | 25.40  | 1                          |
| 24        | 48                                 | 1.100  | 27.94  | 2                          |
| 26        | 52                                 | 1.200  | 30.48  | 1                          |
| 28        | 56                                 | 1.300  | 33.02  | 2                          |
| 30        | 60                                 | 1.400  | 35.56  | 1                          |
| 32        | 64                                 | 1.500  | 38.10  | 2                          |
| 34        | 68                                 | 1.600  | 40.64  | 1                          |
| 36        | 72                                 | 1.700  | 43.18  | 2                          |
| 38        | 76                                 | 1.800  | 45.72  | 1                          |
| 40        | 80                                 | 1.900  | 48.26  | 2                          |
| 42        | 84                                 | 2.000  | 50.80  | 1                          |
| 44        | 88                                 | 2.100  | 53.34  | 2                          |
| 46        | 92                                 | 2.200  | 55.88  | 1                          |
| 48        | 96                                 | 2.300  | 58.42  | 2                          |
| 50        | 100                                | 2.400  | 60.96  | 1                          |
| 52        | 104                                | 2.500  | 63.50  | 2                          |
| 54        | 108                                | 2.600  | 66.04  | 1                          |
| 56        | 112                                | 2.700  | 68.58  | 2                          |
| 58        | 116                                | 2.800  | 71.12  | 1                          |
| 60        | 120                                | 2.900  | 73.66  | 2                          |
| 62        | 124                                | 3.000  | 76.20  | 1                          |
| 64        | 128                                | 3.100  | 78.74  | 2                          |
| 66        | 132                                | 3.200  | 81.28  | 1                          |
| 68        | 136                                | 3.300  | 83.82  | 2                          |
| 70        | 140                                | 3.400  | 86.36  | 1                          |
| 72        | 144                                | 3.500  | 88.90  | 2                          |
| 74        | 148                                | 3.600  | 91.44  | 1                          |
| 76        | 152                                | 3.700  | 93.98  | 2                          |
| 78        | 156                                | 3.800  | 96.52  | 1                          |
| 80        | 160                                | 3.900  | 99.06  | 2                          |
| 82        | 164                                | 4.000  | 101.60 | 1                          |
| 84        | 168                                | 4.100  | 104.14 | 2                          |
| 86        | 172                                | 4.200  | 106.68 | 1                          |
| 88        | 176                                | 4.300  | 109.22 | 2                          |
| 90        | 180                                | 4.400  | 111.76 | 1                          |

| MOUNTING STYLE |                                                      |  |
|----------------|------------------------------------------------------|--|
| H              | MOUNTING HOLES                                       |  |
| S              | SIDE MOUNTING HOLES                                  |  |
| I              | #4-40 THREADED INSERTS                               |  |
| A              | #4-40 THREADED INSERTS IN SIDE HOLES                 |  |
| Z              | FLUSH EARS WITH SIDE MOUNTING HOLES                  |  |
| D              | FLUSH EARS WITH Ø.125 HOLES                          |  |
| T              | FLUSH EARS WITH #4-40 THREADED INSERTS               |  |
| V              | FLUSH EARS WITH #4-40 THREADED INSERTS IN SIDE HOLES |  |
| N              | NO MOUNTING EARS                                     |  |

**MODIFICATION CODE**

(CONSULT FACTORY)





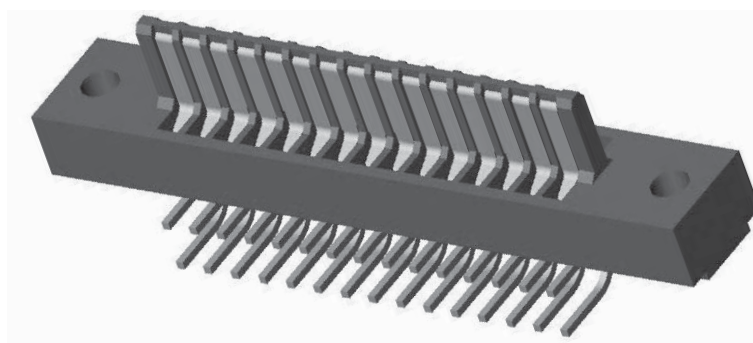
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

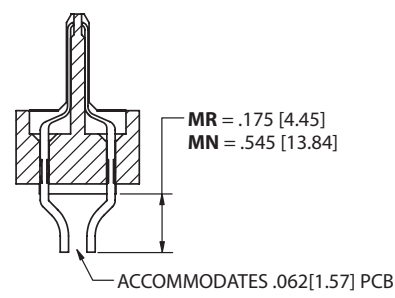
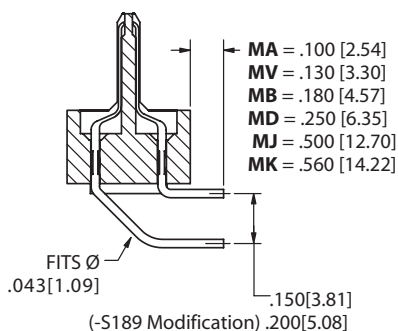
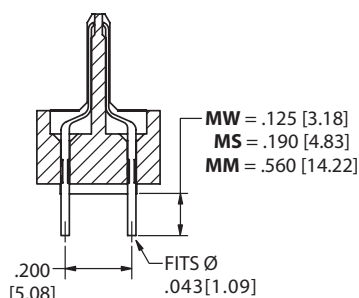
**.100" [2.54mm] Contact Centers, .540" [13.72mm] Insulator Height,  
Male Edgecard, Dip Solder/Right Angle/Card Extender**

### SPECIFICATIONS

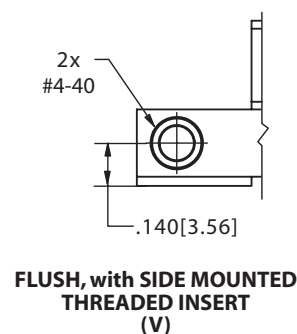
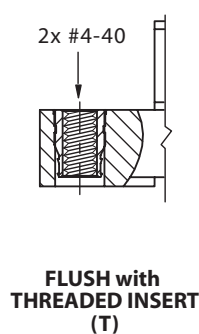
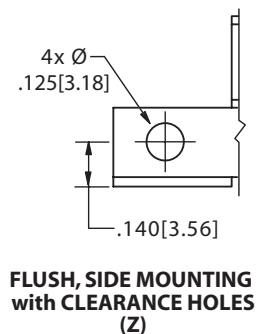
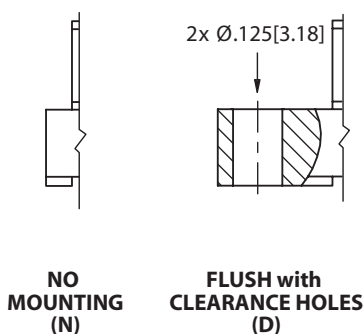
- Compatible with .431" or .610" Insulator Height Edgecards
- Mates in place of .062" [1.57] PCB
- PBT or PA9T insulator
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current
- Consult Factory for other Contact Centers



### TERMINATION TYPE



### MOUNTING STYLE



**.100" [2.54mm] Contact Centers, .540" [13.72mm] Insulator Height,  
Male Edgecard, Dip Solder/Right Angle/Card Extender**

**PART NUMBER CODING**

**MATERIALS (Insulator/Contact)**

E = PBT/Phosphor Bronze  
Operating Temperature: -65°C to 125°C  
Processing Temperature: 260°C for 10 seconds Max.  
G = PA9T/Phosphor Bronze  
Operating Temperature: -65°C to 150°C  
Processing Temperature: 260°C for 120 seconds Max.

**CONTACT FINISH - RoHS Compliant**

All platings are Lead Free and have .000050" Nickel underplate

**Contact Surface Termination**

B = .000010" Gold .000100" Pure Tin, Matte  
C = .000030" Gold .000100" Pure Tin, Matte  
Y = .000030" Gold .000005" Gold

**CONTACT CENTERS**

C = .100" [2.54mm]

**NUMBER OF CONTACT POSITIONS**

04 thru 60 Positions (Contact Factory for Positions Not Shown)

**E B C 25 M MW D - Sxxx**

**MODIFICATIONS (Consult Factory)**

Omit for Standard  
-S189 = .200" Row Spacing (Right Angle Only)

**MOUNTING STYLE (Opposite Page)**

N = No Mounting  
D = .250" Ears, Flush Mounting, .125" [3.18mm] Dia  
Z = .250" Ears, Flush, Side Mounting  
T = .250" Ears, Flush Mounting, #4-40 Threaded Insert  
V = Flush, Side Mounting, #4-40 Threaded Insert

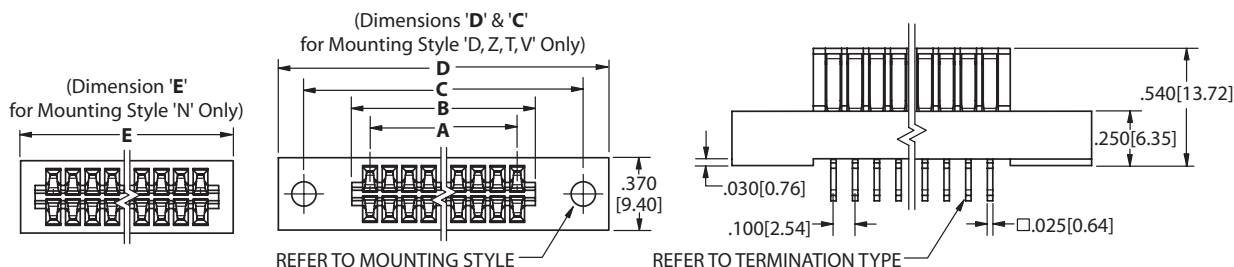
**TERMINATION TYPE (Opposite Page)**

MW, MS = Dip Solder  
MM = Wire Wrap  
MA, MV, MB = Right Angle  
MD, MJ, MK = Right Angle  
MR, MN = Card Extender

**M = Male Edgecard**

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |        |                         | [MILLIMETERS] |        |        |        |                         |
|------------------------|--------|--------|--------|--------|-------------------------|---------------|--------|--------|--------|-------------------------|
|                        | A±.008 | B±.008 | C±.010 | D±.020 | E±.020 'N'<br>Mtg. Only | A±0.20        | B±0.20 | C±0.25 | D±0.51 | E±0.51 'N'<br>Mtg. Only |
| 04/08                  | 0.300  | 0.486  | 0.975  | 1.236  | 0.656                   | 7.62          | 12.34  | 24.77  | 31.39  | 16.66                   |
| 05/10                  | 0.400  | 0.586  | 1.075  | 1.336  | 0.756                   | 10.16         | 14.88  | 27.31  | 33.93  | 19.20                   |
| 06/12                  | 0.500  | 0.686  | 1.175  | 1.436  | 0.856                   | 12.70         | 17.42  | 29.85  | 36.47  | 21.74                   |
| 07/14                  | 0.600  | 0.786  | 1.275  | 1.536  | 0.956                   | 15.24         | 19.96  | 32.39  | 39.01  | 24.28                   |
| 08/16                  | 0.700  | 0.886  | 1.375  | 1.636  | 1.056                   | 17.78         | 22.50  | 34.93  | 41.55  | 26.82                   |
| 10/20                  | 0.900  | 1.086  | 1.575  | 1.836  | 1.256                   | 22.86         | 27.58  | 40.01  | 46.63  | 31.90                   |
| 12/24                  | 1.100  | 1.286  | 1.775  | 2.036  | 1.456                   | 27.94         | 32.66  | 45.09  | 51.71  | 36.98                   |
| 13/26                  | 1.200  | 1.386  | 1.875  | 2.136  | 1.556                   | 30.48         | 35.20  | 47.63  | 54.25  | 39.52                   |
| 15/30                  | 1.400  | 1.586  | 2.075  | 2.336  | 1.756                   | 35.56         | 40.28  | 52.71  | 59.33  | 44.60                   |
| 17/34                  | 1.600  | 1.786  | 2.275  | 2.536  | 1.956                   | 40.64         | 45.36  | 57.79  | 64.41  | 49.68                   |
| 18/36                  | 1.700  | 1.886  | 2.375  | 2.636  | 2.056                   | 43.18         | 47.90  | 60.33  | 66.95  | 52.22                   |
| 19/38                  | 1.800  | 1.986  | 2.475  | 2.736  | 2.156                   | 45.72         | 50.44  | 62.87  | 69.49  | 54.76                   |
| 20/40                  | 1.900  | 2.086  | 2.575  | 2.836  | 2.256                   | 48.26         | 52.98  | 65.41  | 72.03  | 57.30                   |
| 22/44                  | 2.100  | 2.286  | 2.775  | 3.036  | 2.456                   | 53.34         | 58.06  | 70.49  | 77.11  | 62.38                   |
| 23/46                  | 2.200  | 2.386  | 2.875  | 3.136  | 2.556                   | 55.88         | 60.60  | 73.03  | 79.65  | 64.92                   |
| 24/48                  | 2.300  | 2.486  | 2.975  | 3.236  | 2.656                   | 58.42         | 63.14  | 75.57  | 82.19  | 67.46                   |
| 25/50                  | 2.400  | 2.586  | 3.075  | 3.336  | 2.756                   | 60.96         | 65.68  | 78.11  | 84.73  | 70.00                   |
| 28/56                  | 2.700  | 2.886  | 3.375  | 3.636  | 3.056                   | 66.36         | 73.30  | 85.73  | 92.35  | 77.62                   |
| 30/60                  | 2.900  | 3.086  | 3.575  | 3.836  | 3.256                   | 73.66         | 78.38  | 90.81  | 97.43  | 82.70                   |
| 31/62                  | 3.000  | 3.186  | 3.675  | 3.936  | 3.356                   | 76.20         | 80.92  | 93.35  | 99.97  | 85.24                   |
| 35/70                  | 3.400  | 3.586  | 4.075  | 4.336  | 3.756                   | 86.36         | 91.08  | 103.51 | 110.13 | 95.40                   |
| 36/72                  | 3.500  | 3.686  | 4.175  | 4.436  | 3.856                   | 88.90         | 93.62  | 106.05 | 112.67 | 97.94                   |
| 40/80                  | 3.900  | 4.086  | 4.575  | 4.836  | 4.256                   | 99.06         | 103.78 | 116.21 | 122.83 | 108.10                  |
| 43/86                  | 4.200  | 4.386  | 4.875  | 5.136  | 4.556                   | 106.68        | 111.40 | 123.83 | 130.45 | 115.72                  |
| 44/88                  | 4.300  | 4.486  | 4.975  | 5.236  | 4.656                   | 109.22        | 113.94 | 126.37 | 132.99 | 118.26                  |
| 49/98                  | 4.800  | 4.986  | 5.475  | 5.736  | 5.156                   | 121.92        | 126.64 | 139.07 | 145.69 | 130.96                  |
| 50/100                 | 4.900  | 5.086  | 5.575  | 5.836  | 5.256                   | 124.46        | 129.18 | 141.61 | 148.23 | 133.50                  |
| 52/104                 | 5.100  | 5.286  | 5.775  | 6.036  | 5.456                   | 129.54        | 134.26 | 146.69 | 153.31 | 138.58                  |
| 55/110                 | 5.400  | 5.586  | 6.075  | 6.336  | 5.756                   | 137.16        | 141.88 | 154.31 | 160.93 | 146.20                  |
| 56/112*                | 5.500  | 5.686  | 6.175  | 6.436  | 5.856                   | 139.70        | 144.42 | 156.85 | 163.47 | 148.74                  |
| 57/114*                | 5.600  | 5.786  | 6.275  | 6.536  | 5.956                   | 142.24        | 146.96 | 159.39 | 166.01 | 151.28                  |
| 58/116*                | 5.700  | 5.886  | 6.375  | 6.636  | 6.056                   | 144.78        | 149.50 | 161.93 | 168.55 | 153.82                  |
| 59/118*                | 5.800  | 5.986  | 6.475  | 6.736  | 6.156                   | 147.32        | 152.04 | 164.47 | 171.09 | 156.36                  |
| 60/120*                | 5.900  | 6.086  | 6.575  | 6.836  | 6.256                   | 149.86        | 154.58 | 167.01 | 173.63 | 158.90                  |

\* Available in 'N' Mounting Only



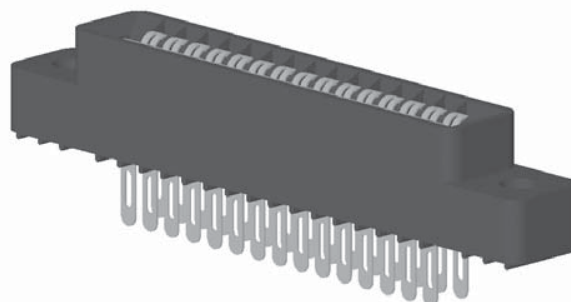
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

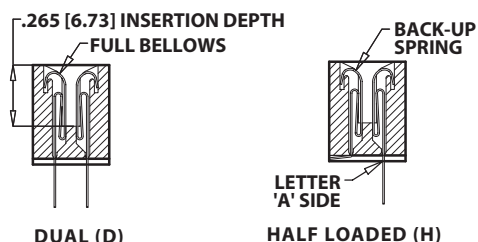
**.100" [2.54mm] Contact Centers, .431" Insulator Height**  
**Dip Solder/Eyelet/Right Angle for .062" [1.57] or .031" [0.79] Mating PCB**

### SPECIFICATIONS

- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board
- PBT, PPS, PA9T or PEEK insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

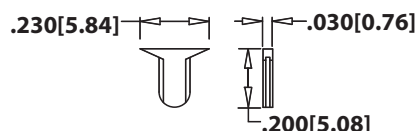


### READOUT



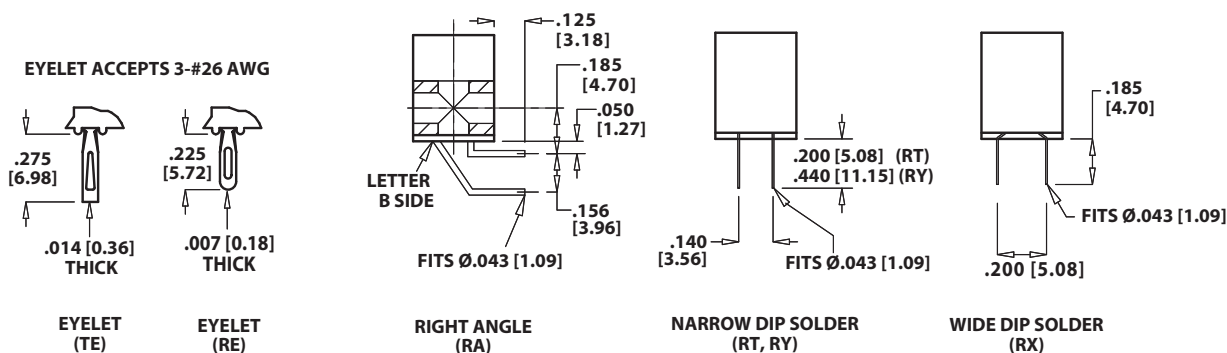
### POLARIZING KEYS (For .062" Mating PCB Only)

**PLA-K1**  
**KEY IN BETWEEN CONTACTS**  
**(ORDER SEPARATELY)**

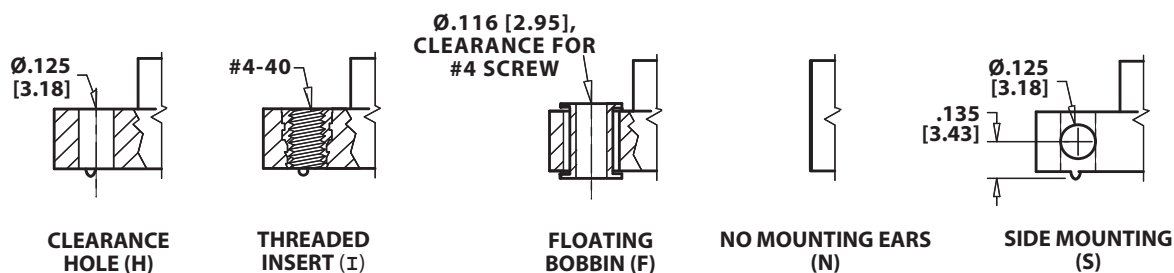


**CONSULT FACTORY FOR MOLDED-IN KEY**

### TERMINATION TYPE



### MOUNTING STYLE



**.100" [2.54mm] Contact Centers, .431" Insulator Height**  
**Dip Solder/Eyelet/Right Angle for .062" [1.57] or .031" [0.79] Mating PCB**

**PART NUMBER CODING**

**MATERIALS (Insulator/Contact)**

E = PBT/Phosphor Bronze (Standard)  
R = PPS/Phosphor Bronze  
G = PA9T/Phosphor bronze  
H = PBT/Beryllium Copper  
A = PPS/Beryllium Copper  
J = PA9T/Beryllium Copper  
\*F = PPS/Spinodal (Overall Gold Plating Only)  
Consult Factory for Special Soldering Guidelines  
\*C = PPS/Beryllium Nickel (Overall Gold Plating Only)  
\*W = PEEK/Beryllium Nickel (Overall Gold Plating Only)  
\*Consult Factory for availability.

**CONTACT FINISH - RoHS Compliant**

All platings are Lead Free and have .000050" Nickel underplate

|     | Contact Surface          | Termination              |
|-----|--------------------------|--------------------------|
| B = | .000010" Gold            | .000100" Pure Tin, Matte |
| C = | .000030" Gold            | .000100" Pure Tin, Matte |
| G = | .000010" Gold            | .000005" Gold            |
| Y = | .000030" Gold            | .000005" Gold            |
|     | Contact Surface          | Overall Plating          |
| S = | .000010" Gold            | .000010" Gold            |
| M = | .000030" Gold            | .000010" Gold            |
| E = | .000100" Pure Tin, Matte | .000100" Pure Tin, Matte |

**CONTACT CENTERS**

C = .100" [2.54mm]

E B C 43 D RE H - Sxxx

**MODIFICATIONS (Consult Factory)**

OMIT FOR STANDARD

-S13 = Card Extender Accepts .062" [1.57] PCB  
(RE, RT, RY Terminations Only)

-S734 = .031" ± .008" [.79 ± .20] Thick Mating PCB

**MOUNTING STYLE (Opposite Page)**

H = .125" [3.18mm] Clearance Holes  
N = No Mounting  
S = Side Mounting  
I = Threaded Insert  
F = Floating Bobbin

**TERMINATION TYPE (Opposite Page)**

RA = Right Angle  
RE = Eyelet (Standard)  
TE = Eyelet (Overall Plated Only)  
RT = .140" [3.56mm] x .200" [5.08mm] Dip Solder  
RY = .140" [3.56mm] x .440" [11.18mm] Dip Solder  
RX = .200" [5.08mm] x .185" [4.70mm] Dip Solder

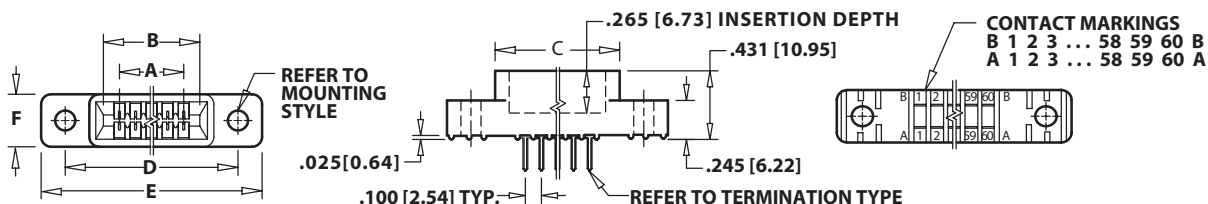
**READOUT (Opposite Page)**

D = Dual  
H = Half Loaded

**NUMBER OF CONTACT POSITIONS**  
See Chart Below

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential. Consult Factory.

| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.005 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.13 |
| 04/08*                 | 0.300  | 0.500  | 0.675  | 0.975  | 1.275  | 0.330  | 7.62          | 12.70  | 17.15  | 24.77  | 32.39  | 8.38   |
| 05/10                  | 0.400  | 0.600  | 0.775  | 1.075  | 1.375  |        | 10.16         | 15.24  | 19.69  | 27.31  | 34.93  |        |
| 06/12                  | 0.500  | 0.700  | 0.875  | 1.175  | 1.475  |        | 12.70         | 17.78  | 22.23  | 29.85  | 37.47  |        |
| 07/14                  | 0.600  | 0.800  | 0.975  | 1.275  | 1.575  |        | 15.24         | 20.32  | 24.77  | 32.39  | 40.01  |        |
| 08/16                  | 0.700  | 0.900  | 1.075  | 1.375  | 1.675  |        | 17.78         | 22.86  | 27.31  | 34.93  | 42.55  |        |
| 10/20                  | 0.900  | 1.100  | 1.275  | 1.575  | 1.875  |        | 22.86         | 27.94  | 32.39  | 40.01  | 47.63  |        |
| 12/24                  | 1.100  | 1.300  | 1.475  | 1.775  | 2.075  |        | 27.94         | 33.02  | 37.47  | 45.09  | 52.71  |        |
| 13/26                  | 1.200  | 1.400  | 1.575  | 1.875  | 2.175  |        | 30.48         | 35.56  | 40.01  | 47.63  | 55.25  |        |
| 15/30                  | 1.400  | 1.600  | 1.775  | 2.075  | 2.375  |        | 35.56         | 40.64  | 45.09  | 52.71  | 60.33  |        |
| 17/34                  | 1.600  | 1.800  | 1.975  | 2.275  | 2.575  |        | 40.64         | 45.72  | 50.17  | 57.79  | 65.41  |        |
| 18/36                  | 1.700  | 1.900  | 2.075  | 2.375  | 2.675  |        | 43.18         | 48.26  | 52.71  | 60.33  | 67.95  |        |
| 19/38                  | 1.800  | 2.000  | 2.175  | 2.475  | 2.775  |        | 45.72         | 50.80  | 55.25  | 62.87  | 70.49  |        |
| 20/40                  | 1.900  | 2.100  | 2.275  | 2.575  | 2.875  |        | 48.26         | 53.34  | 57.79  | 65.41  | 73.03  |        |
| 22/44                  | 2.100  | 2.300  | 2.475  | 2.775  | 3.075  |        | 53.34         | 58.42  | 62.87  | 70.49  | 78.11  |        |
| 23/46*                 | 2.200  | 2.400  | 2.575  | 2.875  | 3.175  |        | 55.88         | 60.96  | 65.41  | 73.03  | 80.65  |        |
| 25/50                  | 2.400  | 2.600  | 2.775  | 3.075  | 3.375  |        | 60.96         | 66.04  | 70.49  | 78.11  | 85.73  |        |
| 26/52                  | 2.500  | 2.700  | 2.875  | 3.175  | 3.475  | 0.400  | 63.50         | 68.58  | 73.03  | 80.65  | 88.27  | 10.16  |
| 28/56                  | 2.700  | 2.900  | 3.075  | 3.375  | 3.675  |        | 68.58         | 73.66  | 78.11  | 85.73  | 93.35  |        |
| 30/60                  | 2.900  | 3.100  | 3.275  | 3.575  | 3.875  |        | 73.66         | 78.74  | 83.19  | 90.81  | 98.43  |        |
| 31/62                  | 3.000  | 3.200  | 3.375  | 3.675  | 3.975  |        | 76.20         | 81.28  | 85.73  | 93.35  | 100.97 |        |
| 35/70                  | 3.400  | 3.600  | 3.775  | 4.075  | 4.375  |        | 86.36         | 91.44  | 95.89  | 103.51 | 111.13 |        |
| 36/72                  | 3.500  | 3.700  | 3.875  | 4.175  | 4.475  |        | 88.90         | 93.98  | 98.43  | 106.05 | 113.67 |        |
| 40/80                  | 3.900  | 4.100  | 4.275  | 4.575  | 4.875  |        | 99.06         | 104.14 | 108.59 | 116.21 | 123.83 |        |
| 43/86                  | 4.200  | 4.400  | 4.575  | 4.875  | 5.175  |        | 106.68        | 111.76 | 116.21 | 123.83 | 131.45 |        |
| 44/88                  | 4.300  | 4.500  | 4.675  | 4.975  | 5.275  |        | 109.22        | 114.30 | 118.75 | 126.37 | 133.99 |        |
| 49/98                  | 4.800  | 5.000  | 5.175  | 5.475  | 5.775  |        | 121.92        | 127.00 | 131.45 | 139.07 | 146.69 |        |
| 50/100                 | 4.900  | 5.100  | 5.275  | 5.575  | 5.875  |        | 124.46        | 129.54 | 133.99 | 141.61 | 149.23 |        |
| 52/104*                | 5.100  | 5.300  | 5.475  | 5.775  | 6.075  |        | 129.54        | 134.62 | 139.07 | 146.69 | 154.31 |        |
| 60/120                 | 5.900  | 6.100  | 6.275  | 6.575  | 6.875  |        | 149.86        | 154.94 | 159.39 | 167.01 | 174.63 |        |
| 65/130                 | 6.400  | 6.600  | 6.775  | 7.075  | 7.375  |        | 162.56        | 167.64 | 172.09 | 179.71 | 187.33 |        |

\* Consult Factory For Availability



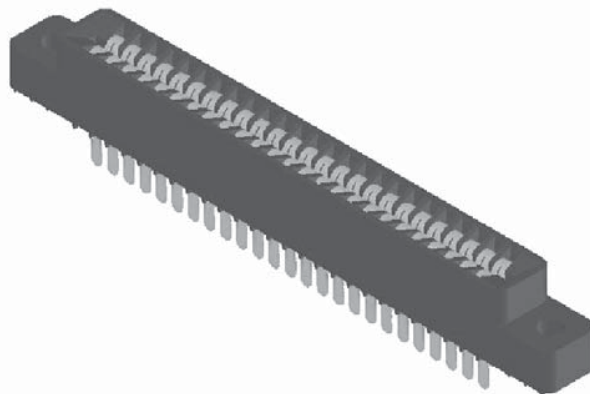
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

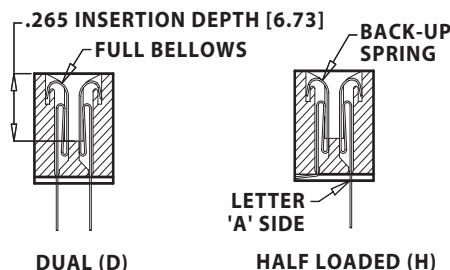
**.100" [2.54mm] Contact Centers, .431" Insulator Height**  
**Dip Solder/Eyelet/Right Angle for .093" [2.36] Mating PCB**

### SPECIFICATIONS

- Accommodates .093"  $\pm$  .008" [2.36  $\pm$  .20] PC board
- PBT, PPS, PA9T, or PEEK insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current



### READOUT

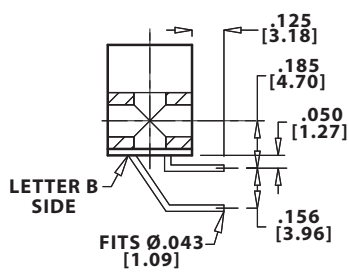


### TERMINATION TYPE

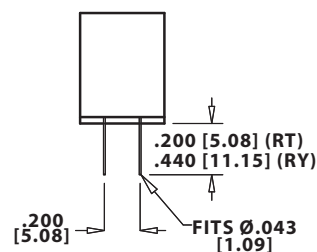
EYELET ACCEPTS 3-#26 AWG



EYELET  
(RE)

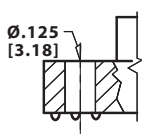


RIGHT ANGLE  
(RA)

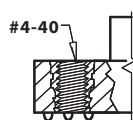


NARROW DIP SOLDER  
(RT,RY)

### MOUNTING STYLE



CLEARANCE  
HOLE (H)



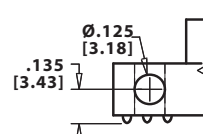
THREADED  
INSERT (I)



FLOATING  
BOBBIN (F)



NO MOUNTING EARS  
(N)



SIDE MOUNTING  
(S)

**.100" [2.54mm] Contact Centers, .431" Insulator Height**  
**Dip Solder/Eyelet/Right Angle for .093" [2.36] Mating PCB**

**PART NUMBER CODING**

**MATERIALS (Insulator/Contact)**

E = PBT/Phosphor Bronze (Standard)  
R = PPS/Phosphor Bronze  
G = PA9T/Phosphor bronze  
H = PBT/Beryllium Copper  
A = PPS/Beryllium Copper  
J = PA9T/Beryllium Copper  
\*F = PPS/Spinodal (Overall Gold Plating Only)  
Consult Factory for Special Soldering Guidelines  
\*C = PPS/Beryllium Nickel (Overall Gold Plating Only)  
\*W = PEEK/Beryllium Nickel (Overall Gold Plating Only)  
\*Consult Factory for availability.

**CONTACT FINISH - RoHS Compliant**

All platings are Lead Free and have .000050" Nickel underplate

| Contact Surface              | Termination              |
|------------------------------|--------------------------|
| B = .000010" Gold            | .000100" Pure Tin, Matte |
| C = .000030" Gold            | .000100" Pure Tin, Matte |
| G = .000010" Gold            | .000005" Gold            |
| Y = .000030" Gold            | .000005" Gold            |
| Contact Surface              | Overall Plating          |
| S = .000010" Gold            | .000010" Gold            |
| M = .000030" Gold            | .000010" Gold            |
| E = .000100" Pure Tin, Matte | .000100" Pure Tin, Matte |

E B C 43 D RE H - S93

**MODIFICATION (CONSULT FACTORY)**

-S93 = .093" ± .008" [2.36 ± .20] Thick PCB

**MOUNTING STYLE (Opposite Page)**

H = .125" [3.18mm] Clearance Holes  
N = No Mounting  
S = Side Mounting  
I = Threaded Insert  
F = Floating Bobbin

**TERMINATION TYPE (Opposite Page)**

RA = Right Angle  
RE = Eyelet  
RT = .200" [5.08mm] x .200" [5.08mm] Dip Solder  
RY = .200" [5.08mm] x .440" [11.18mm] Dip Solder

**READOUT (Opposite Page)**

D = Dual  
H = Half Loaded

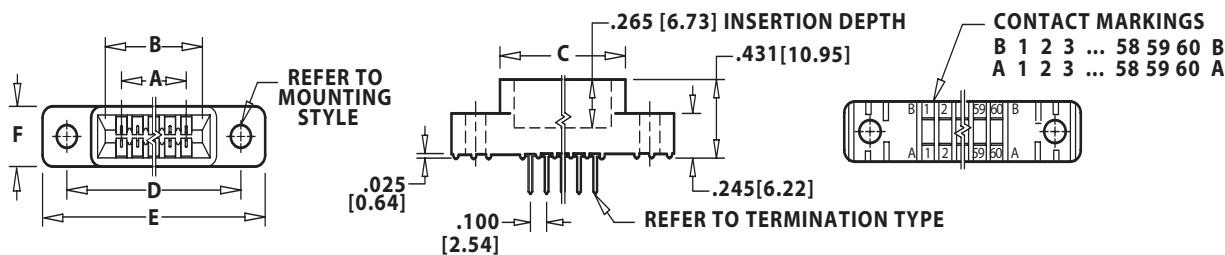
**NUMBER OF CONTACT POSITIONS**  
See Chart Below

**CONTACT CENTERS**

C = .100" [2.54mm]

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.005 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.13 |
| 04/08*                 | 0.300  | 0.500  | 0.675  | 0.975  | 1.275  | 0.330  | 7.62          | 12.70  | 17.15  | 24.77  | 32.39  | 8.38   |
| 05/10                  | 0.400  | 0.600  | 0.775  | 1.075  | 1.375  |        | 10.16         | 15.24  | 19.69  | 27.31  | 34.93  |        |
| 06/12                  | 0.500  | 0.700  | 0.875  | 1.175  | 1.475  |        | 12.70         | 17.78  | 22.23  | 29.85  | 37.47  |        |
| 07/14                  | 0.600  | 0.800  | 0.975  | 1.275  | 1.575  |        | 15.24         | 20.32  | 24.77  | 32.39  | 40.01  |        |
| 08/16                  | 0.700  | 0.900  | 1.075  | 1.375  | 1.675  |        | 17.78         | 22.86  | 27.31  | 34.93  | 42.55  |        |
| 10/20                  | 0.900  | 1.100  | 1.275  | 1.575  | 1.875  |        | 22.86         | 27.94  | 32.39  | 40.01  | 47.63  |        |
| 12/24                  | 1.100  | 1.300  | 1.475  | 1.775  | 2.075  |        | 27.94         | 33.02  | 37.47  | 45.09  | 52.71  |        |
| 13/26                  | 1.200  | 1.400  | 1.575  | 1.875  | 2.175  |        | 30.48         | 35.56  | 40.01  | 47.63  | 55.25  |        |
| 15/30                  | 1.400  | 1.600  | 1.775  | 2.075  | 2.375  |        | 35.56         | 40.64  | 45.09  | 52.71  | 60.33  |        |
| 17/34                  | 1.600  | 1.800  | 1.975  | 2.275  | 2.575  |        | 40.64         | 45.72  | 50.17  | 57.79  | 65.41  |        |
| 18/36                  | 1.700  | 1.900  | 2.075  | 2.375  | 2.675  |        | 43.18         | 48.26  | 52.71  | 60.33  | 67.95  |        |
| 19/38                  | 1.800  | 2.000  | 2.175  | 2.475  | 2.775  |        | 45.72         | 50.80  | 55.25  | 62.87  | 70.49  |        |
| 20/40                  | 1.900  | 2.100  | 2.275  | 2.575  | 2.875  |        | 48.26         | 53.34  | 57.79  | 65.41  | 73.03  |        |
| 22/44                  | 2.100  | 2.300  | 2.475  | 2.775  | 3.075  |        | 53.34         | 58.42  | 62.87  | 70.49  | 78.11  |        |
| 23/46*                 | 2.200  | 2.400  | 2.575  | 2.875  | 3.175  |        | 55.88         | 60.96  | 65.41  | 73.03  | 80.65  |        |
| 25/50                  | 2.400  | 2.600  | 2.775  | 3.075  | 3.375  |        | 60.96         | 66.04  | 70.49  | 78.11  | 85.73  |        |
| 26/52                  | 2.500  | 2.700  | 2.875  | 3.175  | 3.475  |        | 63.50         | 68.58  | 73.03  | 80.65  | 88.27  |        |
| 28/56                  | 2.700  | 2.900  | 3.075  | 3.375  | 3.675  | 0.400  | 68.58         | 73.66  | 78.11  | 85.73  | 93.35  | 10.16  |
| 30/60                  | 2.900  | 3.100  | 3.275  | 3.575  | 3.875  |        | 73.66         | 78.74  | 83.19  | 90.81  | 98.43  |        |
| 31/62                  | 3.000  | 3.200  | 3.375  | 3.675  | 3.975  |        | 76.20         | 81.28  | 85.73  | 93.35  | 100.97 |        |
| 35/70                  | 3.400  | 3.600  | 3.775  | 4.075  | 4.375  |        | 86.36         | 91.44  | 95.89  | 103.51 | 111.13 |        |
| 36/72                  | 3.500  | 3.700  | 3.875  | 4.175  | 4.475  |        | 88.90         | 93.98  | 98.43  | 106.05 | 113.67 |        |
| 40/80                  | 3.900  | 4.100  | 4.275  | 4.575  | 4.875  |        | 99.06         | 104.14 | 108.59 | 116.21 | 123.83 |        |
| 43/86                  | 4.200  | 4.400  | 4.575  | 4.875  | 5.175  |        | 106.68        | 111.76 | 116.21 | 123.83 | 131.45 |        |
| 44/88                  | 4.300  | 4.500  | 4.675  | 4.975  | 5.275  |        | 109.22        | 114.30 | 118.75 | 126.37 | 133.99 |        |
| 49/98                  | 4.800  | 5.000  | 5.175  | 5.475  | 5.775  |        | 121.92        | 127.00 | 131.45 | 139.07 | 146.69 |        |
| 50/100                 | 4.900  | 5.100  | 5.275  | 5.575  | 5.875  |        | 124.46        | 129.54 | 133.99 | 141.61 | 149.23 |        |
| 52/104*                | 5.100  | 5.300  | 5.475  | 5.775  | 6.075  |        | 129.54        | 134.62 | 139.07 | 146.69 | 154.31 |        |
| 60/120                 | 5.900  | 6.100  | 6.275  | 6.575  | 6.875  |        | 149.86        | 154.94 | 159.39 | 167.01 | 174.63 |        |
| 65/125                 | 6.400  | 6.600  | 6.775  | 7.075  | 7.375  |        | 162.56        | 167.64 | 172.09 | 179.71 | 187.33 |        |

\* Consult Factory For Availability



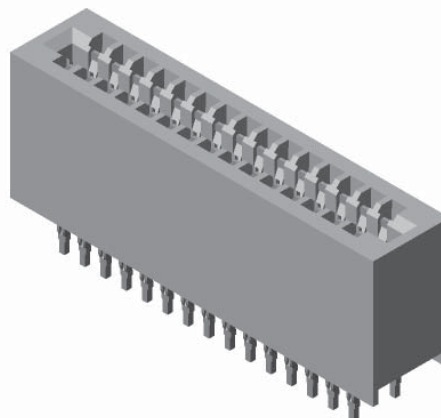
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

**.100" [2.54mm] Contact Centers, .550" or .610" Profile  
Press Fit**

### SPECIFICATIONS

- Designed to meet specifications of Bellcore specification TR-TSY-00078.
- Flat rock installation eliminates the need for any special installation tool.
- Integrally molded scoops available to assist daughter card entry.
- Various plating options available per customer requirements.
- Various insulator options per customer requirements, including:
  - Open ended on one side
  - Open ended on both sides to accommodate end to end mounting
  - Molded in keys per customer requirements.



### FEATURES

#### COMPLIANT SECTION INSERTION FORCE

40 lbs maximum per contact

#### COMPLIANT SECTION WITHDRAWAL FORCE

10 lbs minimum per contact

#### HOLE SIZE REQUIREMENTS

Drilled Hole Diameter:  $.0453" \pm .0010"$  [1.15  $\pm$  .03]

Plating:  $.001"$  [.03] to  $.003"$  [.08] Copper and  $.0003"$  [.01] Minimum Tin

#### FINISHED HOLE DIAMETER

$.040" \pm .003"$  [1.02  $\pm$  .08]

#### SUITABLE FOR .062" [1.57] DAUGHTER CARD

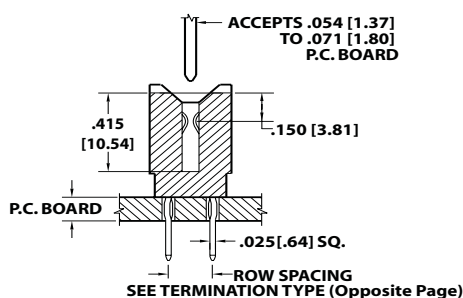
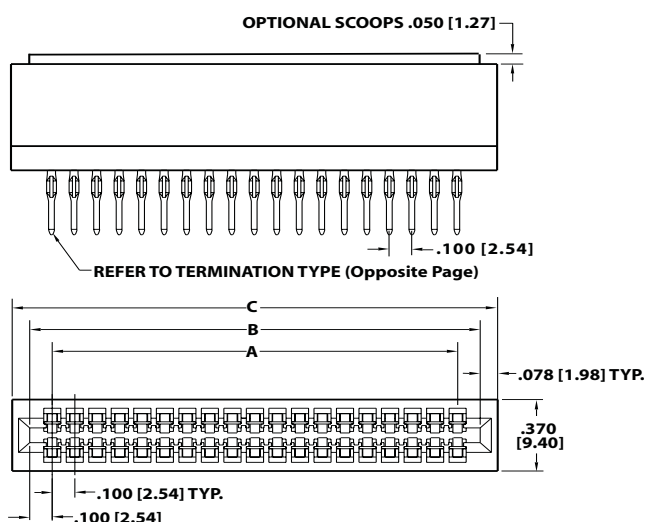
#### RECOMMENDED MOTHERBOARD THICKNESS

$.093"$  to  $.125"$  [2.36 to 3.18]

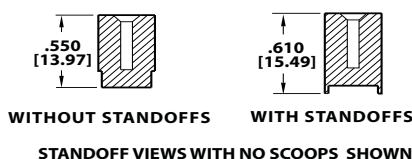
#### UL-CUL RECOGNIZED

### DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



-S1136 (WITH SCOOPS) SHOWN ABOVE





## PART NUMBER CODING

|                                                                                                                                                                                              |                  |                    |                    | E | C | C | 43 | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | JB | N | - Sxxx |  |                  |                    |                    |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------|--------------------|---|---|---|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|--------|--|------------------|--------------------|--------------------|------|----|----------------|----------------|------|----|----------------|-----------------|------|-----|----------------|----------------|------|-----|----------------|-----------------|------|----|----------------|----------------|------|----|----------------|-----------------|------|-----|----------------|----------------|------|-----|----------------|-----------------|
| <b>MATERIALS (Insulator/Contact)</b><br>E = PBT/Phosphor Bronze                                                                                                                              |                  |                    |                    |   |   |   |    | <b>MODIFICATIONS</b> (Consult Factory)<br>OMIT FOR STANDARD<br>Special Number assigned for specials such as:<br>- Scoops (-S1136)<br>- Other Card Slot Depths<br>- Slim Line Body (.315" [8.00mm])                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |   |        |  |                  |                    |                    |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |
| <b>CONTACT FINISH - RoHS Compliant</b><br>All platings are Lead Free and have .000050" Nickel underplate<br><i>Contact Surface Termination</i><br>C = .000030" Gold .000100" Pure Tin, Matte |                  |                    |                    |   |   |   |    | <b>MOUNTING STYLE</b><br>N = No Mounting<br>B = Open Card Slot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |   |        |  |                  |                    |                    |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |
| <b>CONTACT CENTERS</b><br>C = .100" [2.54mm]                                                                                                                                                 |                  |                    |                    |   |   |   |    | <b>TERMINATION TYPE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |   |        |  |                  |                    |                    |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |
| <b>NUMBER OF CONTACT POSITIONS</b><br>See Chart Below                                                                                                                                        |                  |                    |                    |   |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |   |        |  |                  |                    |                    |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |
| <b>READOUT</b><br>D = Dual<br>H = Half Loaded                                                                                                                                                |                  |                    |                    |   |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |   |        |  |                  |                    |                    |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |
|                                                                                                                                                                                              |                  |                    |                    |   |   |   |    | <table><thead><tr><th></th><th><i>Standoffs</i></th><th><i>Row Spacing</i></th><th><i>Tail Length</i></th></tr></thead><tbody><tr><td>JB =</td><td>No</td><td>.200" [5.08mm]</td><td>.190" [4.83mm]</td></tr><tr><td>JC =</td><td>No</td><td>.200" [5.08mm]</td><td>.625" [15.88mm]</td></tr><tr><td>JW =</td><td>Yes</td><td>.200" [5.08mm]</td><td>.190" [4.83mm]</td></tr><tr><td>JX =</td><td>Yes</td><td>.200" [5.08mm]</td><td>.565" [14.35mm]</td></tr><tr><td>JF =</td><td>No</td><td>.100" [2.54mm]</td><td>.190" [4.83mm]</td></tr><tr><td>JG =</td><td>No</td><td>.100" [2.54mm]</td><td>.625" [15.88mm]</td></tr><tr><td>JY =</td><td>Yes</td><td>.100" [2.54mm]</td><td>.190" [4.83mm]</td></tr><tr><td>JZ =</td><td>Yes</td><td>.100" [2.54mm]</td><td>.565" [14.35mm]</td></tr></tbody></table> |    |   |        |  | <i>Standoffs</i> | <i>Row Spacing</i> | <i>Tail Length</i> | JB = | No | .200" [5.08mm] | .190" [4.83mm] | JC = | No | .200" [5.08mm] | .625" [15.88mm] | JW = | Yes | .200" [5.08mm] | .190" [4.83mm] | JX = | Yes | .200" [5.08mm] | .565" [14.35mm] | JF = | No | .100" [2.54mm] | .190" [4.83mm] | JG = | No | .100" [2.54mm] | .625" [15.88mm] | JY = | Yes | .100" [2.54mm] | .190" [4.83mm] | JZ = | Yes | .100" [2.54mm] | .565" [14.35mm] |
|                                                                                                                                                                                              | <i>Standoffs</i> | <i>Row Spacing</i> | <i>Tail Length</i> |   |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |   |        |  |                  |                    |                    |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |
| JB =                                                                                                                                                                                         | No               | .200" [5.08mm]     | .190" [4.83mm]     |   |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |   |        |  |                  |                    |                    |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |
| JC =                                                                                                                                                                                         | No               | .200" [5.08mm]     | .625" [15.88mm]    |   |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |   |        |  |                  |                    |                    |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |
| JW =                                                                                                                                                                                         | Yes              | .200" [5.08mm]     | .190" [4.83mm]     |   |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |   |        |  |                  |                    |                    |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |
| JX =                                                                                                                                                                                         | Yes              | .200" [5.08mm]     | .565" [14.35mm]    |   |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |   |        |  |                  |                    |                    |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |
| JF =                                                                                                                                                                                         | No               | .100" [2.54mm]     | .190" [4.83mm]     |   |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |   |        |  |                  |                    |                    |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |
| JG =                                                                                                                                                                                         | No               | .100" [2.54mm]     | .625" [15.88mm]    |   |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |   |        |  |                  |                    |                    |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |
| JY =                                                                                                                                                                                         | Yes              | .100" [2.54mm]     | .190" [4.83mm]     |   |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |   |        |  |                  |                    |                    |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |
| JZ =                                                                                                                                                                                         | Yes              | .100" [2.54mm]     | .565" [14.35mm]    |   |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |   |        |  |                  |                    |                    |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |      |    |                |                |      |    |                |                 |      |     |                |                |      |     |                |                 |

| POSITIONS/<br>CONTACTS | A±.008[0.20] |       | B±.008[0.20] |       | C±.015[0.38] |       |
|------------------------|--------------|-------|--------------|-------|--------------|-------|
|                        | INCH         | [MM]  | INCH         | [MM]  | INCH         | [MM]  |
| 05/10                  | 0.400        | 10.16 | 0.600        | 15.24 | 0.756        | 19.20 |
| 06/12                  | 0.500        | 12.70 | 0.700        | 17.78 | 0.856        | 21.74 |
| 07/14                  | 0.600        | 15.24 | 0.800        | 20.32 | 0.956        | 24.28 |
| 08/16                  | 0.700        | 17.78 | 0.900        | 22.86 | 1.056        | 26.82 |
| 09/18                  | 0.800        | 20.32 | 1.000        | 25.40 | 1.156        | 29.36 |
| 10/20                  | 0.900        | 22.86 | 1.100        | 27.94 | 1.256        | 31.90 |
| 11/22                  | 1.000        | 25.40 | 1.200        | 30.48 | 1.356        | 34.44 |
| 12/24                  | 1.100        | 27.94 | 1.300        | 33.02 | 1.456        | 36.98 |
| 13/26                  | 1.200        | 30.48 | 1.400        | 35.56 | 1.556        | 39.52 |
| 14/28                  | 1.300        | 33.02 | 1.500        | 38.10 | 1.656        | 42.06 |
| 15/30                  | 1.400        | 35.56 | 1.600        | 40.64 | 1.756        | 44.60 |
| 16/32                  | 1.500        | 38.10 | 1.700        | 43.18 | 1.856        | 47.14 |
| 17/34                  | 1.600        | 40.64 | 1.800        | 45.72 | 1.956        | 49.68 |
| 18/36                  | 1.700        | 43.18 | 1.900        | 48.26 | 2.056        | 52.22 |
| 19/38                  | 1.800        | 45.72 | 2.000        | 50.80 | 2.156        | 54.76 |
| 20/40                  | 1.900        | 48.26 | 2.100        | 53.34 | 2.256        | 57.30 |
| 21/42                  | 2.000        | 50.80 | 2.200        | 55.88 | 2.356        | 59.84 |
| 22/44                  | 2.100        | 53.34 | 2.300        | 58.42 | 2.456        | 62.38 |
| 23/46                  | 2.200        | 55.88 | 2.400        | 60.96 | 2.556        | 64.92 |
| 24/48                  | 2.300        | 58.42 | 2.500        | 63.50 | 2.656        | 67.46 |
| 25/50                  | 2.400        | 60.96 | 2.600        | 66.04 | 2.756        | 70.00 |
| 26/52                  | 2.500        | 63.50 | 2.700        | 68.58 | 2.856        | 72.54 |
| 27/54                  | 2.600        | 66.04 | 2.800        | 71.12 | 2.956        | 75.08 |
| 28/56                  | 2.700        | 68.58 | 2.900        | 73.66 | 3.056        | 77.62 |
| 29/58                  | 2.800        | 71.12 | 3.000        | 76.20 | 3.156        | 80.16 |
| 30/60                  | 2.900        | 73.66 | 3.100        | 78.74 | 3.256        | 82.70 |
| 31/62                  | 3.000        | 76.20 | 3.200        | 81.28 | 3.356        | 85.24 |
| 32/64                  | 3.100        | 78.74 | 3.300        | 83.82 | 3.456        | 87.78 |

| POSITIONS/<br>CONTACTS | A±.008[0.20] |        | B±.008[0.20] |        | C±.015[0.38] |        |
|------------------------|--------------|--------|--------------|--------|--------------|--------|
|                        | INCH         | [MM]   | INCH         | [MM]   | INCH         | [MM]   |
| 33/66                  | 3.200        | 81.28  | 3.400        | 86.36  | 3.556        | 90.32  |
| 34/68                  | 3.300        | 83.82  | 3.500        | 88.90  | 3.656        | 92.86  |
| 35/70                  | 3.400        | 86.36  | 3.600        | 91.44  | 3.756        | 95.40  |
| 36/72                  | 3.500        | 88.90  | 3.700        | 93.98  | 3.856        | 97.94  |
| 37/74                  | 3.600        | 91.44  | 3.800        | 96.52  | 3.956        | 100.48 |
| 38/76                  | 3.700        | 93.98  | 3.900        | 99.06  | 4.056        | 103.02 |
| 39/78                  | 3.800        | 96.52  | 4.000        | 101.60 | 4.156        | 105.56 |
| 40/80                  | 3.900        | 99.06  | 4.100        | 104.14 | 4.256        | 108.10 |
| 41/82                  | 4.000        | 101.60 | 4.200        | 106.68 | 4.356        | 110.64 |
| 42/84                  | 4.100        | 104.14 | 4.300        | 109.22 | 4.456        | 113.18 |
| 43/86                  | 4.200        | 106.68 | 4.400        | 111.76 | 4.556        | 115.72 |
| 44/88                  | 4.300        | 109.22 | 4.500        | 114.30 | 4.656        | 118.26 |
| 45/90                  | 4.400        | 111.76 | 4.600        | 116.84 | 4.756        | 120.80 |
| 46/92                  | 4.500        | 114.30 | 4.700        | 119.38 | 4.856        | 123.34 |
| 47/94                  | 4.600        | 116.84 | 4.800        | 121.92 | 4.956        | 125.88 |
| 48/96                  | 4.700        | 119.38 | 4.900        | 124.46 | 5.056        | 128.42 |
| 49/98                  | 4.800        | 121.92 | 5.000        | 127.00 | 5.156        | 130.96 |
| 50/100                 | 4.900        | 124.46 | 5.100        | 129.54 | 5.256        | 133.50 |
| 51/102                 | 5.000        | 127.00 | 5.200        | 132.08 | 5.356        | 136.04 |
| 52/104                 | 5.100        | 129.54 | 5.300        | 134.62 | 5.456        | 138.58 |
| 53/106                 | 5.200        | 132.08 | 5.400        | 137.16 | 5.556        | 141.12 |
| 54/108                 | 5.300        | 134.62 | 5.500        | 139.70 | 5.656        | 143.66 |
| 55/110                 | 5.400        | 137.16 | 5.600        | 142.24 | 5.756        | 146.20 |
| 56/112                 | 5.500        | 139.70 | 5.700        | 144.78 | 5.856        | 148.74 |
| 57/114                 | 5.600        | 142.24 | 5.800        | 147.32 | 5.956        | 151.28 |
| 58/116                 | 5.700        | 144.78 | 5.900        | 149.86 | 6.056        | 153.82 |
| 59/118                 | 5.800        | 147.32 | 6.000        | 152.40 | 6.156        | 156.36 |
| 60/120                 | 5.900        | 149.86 | 6.100        | 154.94 | 6.256        | 158.90 |



## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

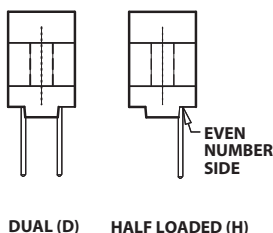
### .100" [2.54mm] Contact Centers, .610" Insulator Height Dip Solder/Wire Wrap/Right Angle/Card Extender

#### SPECIFICATIONS

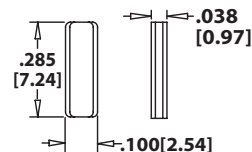
- Accommodates .062" ± .008" [1.57 ± .20] PC board (For .093" ± .008" [2.36 ± .20] PCB see page 40-41, 42-43; for .125" ± .008" [3.18 ± .20] PCB see page 40-41)
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current



#### READOUT



#### POLARIZING KEY PLC-K1

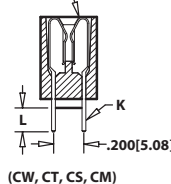


**KEY IN BETWEEN CONTACTS  
(ORDER SEPARATELY)**

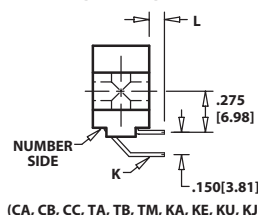
#### TERMINATION TYPE

| HAIRPIN BELLOWS | TERMINATION TYPE | POST CROSS SECTION K    | POST LENGTH L<br>.025 [.64] | FITS MIN. HOLE SIZE |
|-----------------|------------------|-------------------------|-----------------------------|---------------------|
| CW              | DIP SOLDER       | .015 x .025 [.38 x .64] | .125 [3.18]                 | .035 [0.76]         |
| CT              | DIP SOLDER       | .015 x .025 [.38 x .64] | .170 [4.32]                 | .035 [0.76]         |
| CS              | DIP SOLDER       | .025 [.64] SQUARE       | .160 [4.06]                 | .040 [1.02]         |
| CM              | WIRE WRAP        | .025 [.64] SQUARE       | .560 [14.20]                | .040 [1.02]         |
| CA              | RIGHT ANGLE      | .025 [.64] SQUARE       | .100 [2.54]                 | .043 [1.09]         |
| CB              | RIGHT ANGLE      | .025 [.64] SQUARE       | .180 [4.57]                 | .043 [1.09]         |
| CC              | RIGHT ANGLE      | .025 [.64] SQUARE       | .250 [6.35]                 | .043 [1.09]         |

#### HAIRPIN BELLOWS

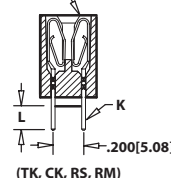


#### RIGHT ANGLE

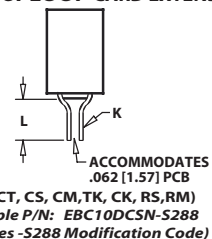


| LOOP BELLOWS | TERMINATION TYPE | POST CROSS SECTION K | POST LENGTH L<br>.025 [.64] | FITS MIN. HOLE SIZE |
|--------------|------------------|----------------------|-----------------------------|---------------------|
| TK,CK        | DIP SOLDER       | .026 [.66] ROUND     | .190 [4.83]                 | .030 [0.76]         |
| RS           | DIP SOLDER       | .025 [.64] SQUARE    | .190 [4.83]                 | .040 [1.02]         |
| RM           | WIRE WRAP        | .025 [.64] SQUARE    | .560 [14.20]                | .040 [1.02]         |
| TA           | RIGHT ANGLE      | .025 [.64] SQUARE    | .100 [2.54]                 | .043 [1.09]         |
| TB           | RIGHT ANGLE      | .025 [.64] SQUARE    | .180 [4.57]                 | .043 [1.09]         |
| TM           | RIGHT ANGLE      | .025 [.64] SQUARE    | .250 [6.35]                 | .043 [1.09]         |

#### LOOP BELLOWS

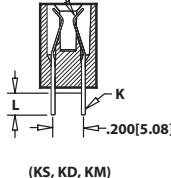


#### HAIRPIN or LOOP CARD EXTENDER

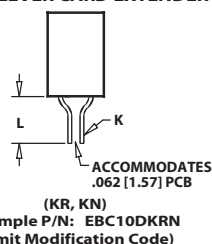


| CANTILEVER | TERMINATION TYPE | POST CROSS SECTION K | POST LENGTH L<br>.025 [.64] | FITS MIN. HOLE SIZE |
|------------|------------------|----------------------|-----------------------------|---------------------|
| KS         | DIP SOLDER       | .025 [.64] SQUARE    | .190 [4.83]                 | .040 [1.02]         |
| KD         | DIP SOLDER       | .025 [.64] SQUARE    | .160 [4.06]                 | .043 [1.09]         |
| KM         | WIRE WRAP        | .025 [.64] SQUARE    | .560 [14.20]                | .040 [1.02]         |
| *KA        | RIGHT ANGLE      | .025 [.64] SQUARE    | .100 [2.54]                 | .043 [1.09]         |
| *KE        | RIGHT ANGLE      | .025 [.64] SQUARE    | .180 [4.57]                 | .043 [1.09]         |
| *KU        | RIGHT ANGLE      | .025 [.64] SQUARE    | .250 [6.35]                 | .043 [1.09]         |
| *KJ        | RIGHT ANGLE      | .025 [.64] SQUARE    | .500 [12.70]                | .043 [1.09]         |
| *KR        | CARD EXTENDER    | .025 [.64] SQUARE    | .235 [5.97]                 | N/A                 |
| *KN        | CARD EXTENDER    | .025 [.64] SQUARE    | .605 [15.37]                | N/A                 |

#### CANTILEVER

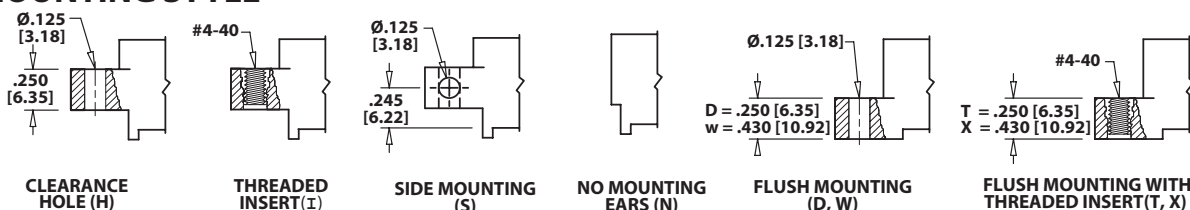


#### CANTILEVER CARD EXTENDER



\* KA, KE, KJ, KR, KN have no standoffs, unless requested.

#### MOUNTING STYLE





**.100" [2.54mm] Contact Centers, .610" Insulator Height**  
**Dip Solder/Wire Wrap/Right Angle/Card Extender**

**PART NUMBER CODING**

**MATERIALS (Insulator/Contact)**

E = PBT/Phosphor Bronze (Standard)  
R = PPS/Phosphor Bronze  
G = PA9T/Phosphor Bronze  
H = PBT/Beryllium Copper  
A = PPS/Beryllium Copper  
J = PA9T/Beryllium Copper  
(Consult Factory for Other Materials)

**CONTACT FINISH - RoHS Compliant**

All platings are Lead Free and have .000050" Nickel underplate

| Contact Surface              | Termination              |
|------------------------------|--------------------------|
| B = .000010" Gold            | .000100" Pure Tin, Matte |
| C = .000030" Gold            | .000100" Pure Tin, Matte |
| G = .000010" Gold            | .000005" Gold            |
| Y = .000030" Gold            | .000005" Gold            |
| Contact Surface              | Overall Plating          |
| S = .000010" Gold            | .000010" Gold            |
| M = .000030" Gold            | .000010" Gold            |
| E = .000100" Pure Tin, Matte | .000100" Pure Tin, Matte |

**CONTACT CENTERS**

C = .100" [2.54mm]

**NUMBER OF CONTACT POSITIONS**

See Chart Below

**READOUT (Opposite Page)**

D = Dual  
H = Half Loaded

E B C 70 D CM H - Sxxx

**MODIFICATION CODE (Consult Factory)**

OMIT FORT STANDARD

-S189 = .200" [5.08mm] Row to Row on Right Angle

-S288\* = Card Extender Accepts .062" [1.57] PCB

\* Not Required on KR or KN Terminations

**MOUNTING STYLE (Opposite Page)**

H = Clearance Holes  
I = Threaded Inserts  
S = Side Mounting  
N = No Mounting  
D, W = Flush Mounting  
T, X = Flush Mounting With Threaded Inserts

**TERMINATION TYPE (Opposite Page)**

**Hairpin Bellows - Available with B or C plating and Phosphor Bronze Only**

CS = .025" [.64mm] Square Dip Solder  
CM = .025 [.64mm] Square Wire Wrap  
CA, CB, CC = .025" [.64mm] Square Right Angle  
CW, CT = .015" x .025" [.38 x .64] Dip Solder

**Loop Bellows**

RS = .025" [.64mm] Square Dip Solder  
CK, TK = .026" [.66mm] Round Dip Solder  
RM = .025" [.64mm] Square Wire Wrap  
TA, TB, TM = .025" [.64mm] Square Right Angle

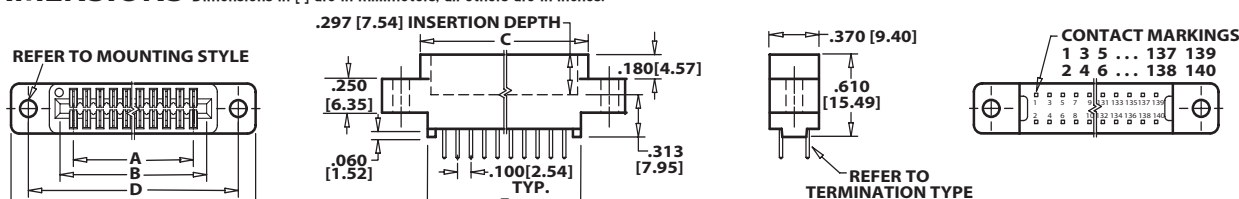
**Cantilever Bellows - Available in Y, B, or C plating Only**

Not Available with R or A Materials

KS, KD = .025" [.64mm] Square Dip Solder  
KM = .025 [.64mm] Square Wire Wrap  
KA, KE, KU, KJ = .025" [.64mm] Square Right Angle  
KR, KN = .025" [.64mm] Square Card Extender

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.015 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.38 |
| 06/12                  | 0.500  | 0.700  | 0.860  | 1.175  | 1.435  | 0.750  | 12.70         | 17.78  | 21.84  | 29.85  | 36.45  | 19.05  |
| 07/14*                 | 0.600  | 0.800  | 0.960  | 1.275  | 1.535  | 0.850  | 15.24         | 20.32  | 24.38  | 32.39  | 38.99  | 21.59  |
| 08/16                  | 0.700  | 0.900  | 1.060  | 1.375  | 1.635  | 0.950  | 17.78         | 22.86  | 26.92  | 34.93  | 41.53  | 24.13  |
| 10/20                  | 0.900  | 1.100  | 1.260  | 1.575  | 1.835  | 1.150  | 22.86         | 27.94  | 32.00  | 40.01  | 46.61  | 29.21  |
| 12/24                  | 1.100  | 1.300  | 1.460  | 1.775  | 2.035  | 1.350  | 27.94         | 33.02  | 37.08  | 45.09  | 51.69  | 34.29  |
| 13/26                  | 1.200  | 1.400  | 1.560  | 1.875  | 2.135  | 1.450  | 30.48         | 35.56  | 39.62  | 47.63  | 54.23  | 36.83  |
| 15/30                  | 1.400  | 1.600  | 1.760  | 2.075  | 2.335  | 1.650  | 35.56         | 40.64  | 44.70  | 52.71  | 59.31  | 41.91  |
| 17/34                  | 1.600  | 1.800  | 1.960  | 2.275  | 2.535  | 1.850  | 40.64         | 45.72  | 49.78  | 57.79  | 64.39  | 46.99  |
| 18/36                  | 1.700  | 1.900  | 2.060  | 2.375  | 2.635  | 1.950  | 43.18         | 48.26  | 52.32  | 60.33  | 66.93  | 49.53  |
| 20/40                  | 1.900  | 2.100  | 2.260  | 2.575  | 2.835  | 2.150  | 48.26         | 53.34  | 57.40  | 65.41  | 72.01  | 54.61  |
| 22/44                  | 2.100  | 2.300  | 2.460  | 2.775  | 3.035  | 2.350  | 53.34         | 58.42  | 62.48  | 70.49  | 77.09  | 59.69  |
| 24/48                  | 2.300  | 2.500  | 2.660  | 2.975  | 3.235  | 2.550  | 58.42         | 63.50  | 67.56  | 75.57  | 82.17  | 64.77  |
| 25/50                  | 2.400  | 2.600  | 2.760  | 3.075  | 3.335  | 2.650  | 60.96         | 66.04  | 70.10  | 78.11  | 84.71  | 67.31  |
| 28/56                  | 2.700  | 2.900  | 3.060  | 3.375  | 3.635  | 2.950  | 68.58         | 73.66  | 77.72  | 85.73  | 92.33  | 74.93  |
| 30/60                  | 2.900  | 3.100  | 3.260  | 3.575  | 3.835  | 3.150  | 73.66         | 78.74  | 82.80  | 90.81  | 97.41  | 80.01  |
| 31/62                  | 3.000  | 3.200  | 3.360  | 3.675  | 3.935  | 3.250  | 76.20         | 81.28  | 85.34  | 93.35  | 99.95  | 82.55  |
| 35/70                  | 3.400  | 3.600  | 3.760  | 4.075  | 4.335  | 3.650  | 86.36         | 91.44  | 95.50  | 103.51 | 110.11 | 92.71  |
| 36/72                  | 3.500  | 3.700  | 3.860  | 4.175  | 4.435  | 3.750  | 88.90         | 93.98  | 98.04  | 106.05 | 112.65 | 95.25  |
| 40/80                  | 3.900  | 4.100  | 4.260  | 4.575  | 4.835  | 4.150  | 99.06         | 104.14 | 108.20 | 116.21 | 122.81 | 105.41 |
| 43/86                  | 4.200  | 4.400  | 4.560  | 4.875  | 5.135  | 4.450  | 106.68        | 111.76 | 115.82 | 123.83 | 130.43 | 113.03 |
| 44/88                  | 4.300  | 4.500  | 4.660  | 4.975  | 5.235  | 4.550  | 109.22        | 114.30 | 118.36 | 126.37 | 132.97 | 115.57 |
| 49/98*                 | 4.800  | 5.000  | 5.160  | 5.475  | 5.735  | 5.050  | 121.92        | 127.00 | 131.06 | 139.07 | 145.67 | 128.27 |
| 50/100                 | 4.900  | 5.100  | 5.260  | 5.575  | 5.835  | 5.150  | 124.46        | 129.54 | 133.60 | 141.61 | 148.21 | 130.81 |
| 55/110                 | 5.400  | 5.600  | 5.760  | 6.075  | 6.335  | 5.650  | 137.16        | 142.24 | 146.30 | 154.31 | 160.91 | 143.51 |
| 60/120                 | 5.900  | 6.100  | 6.260  | 6.575  | 6.835  | 6.150  | 149.86        | 154.94 | 159.00 | 167.01 | 173.61 | 156.21 |
| 61/122                 | 6.000  | 6.200  | 6.360  | 6.675  | 6.935  | 6.250  | 152.40        | 157.48 | 161.54 | 169.55 | 176.15 | 158.75 |
| 65/130                 | 6.400  | 6.600  | 6.760  | 7.075  | 7.335  | 6.650  | 162.56        | 167.64 | 171.70 | 179.71 | 186.31 | 168.91 |
| 70/140                 | 6.900  | 7.100  | 7.260  | 7.575  | 7.835  | 7.150  | 175.26        | 180.34 | 184.40 | 192.41 | 199.01 | 181.61 |
| 80/160*                | 7.900  | 8.100  | 8.260  | 8.575  | 8.835  | 8.150  | 200.66        | 205.74 | 209.80 | 217.81 | 224.41 | 207.01 |
| 90/180*                | 8.900  | 9.100  | 9.260  | 9.575  | 9.835  | 9.150  | 226.06        | 231.14 | 235.20 | 243.21 | 249.81 | 232.41 |
| 100/200*               | 9.900  | 10.100 | 10.260 | 10.575 | 10.835 | 10.150 | 251.46        | 256.54 | 260.60 | 268.61 | 275.21 | 257.81 |

\* Consult factory for availability.



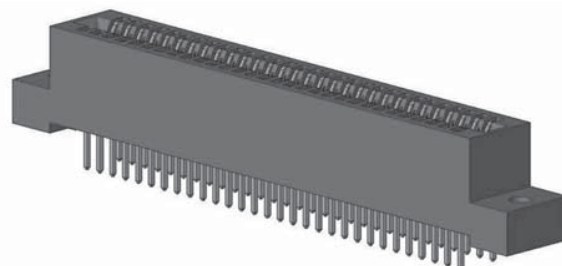
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

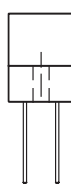
**.100" [2.54mm] Contact Centers, .610" Insulator Height, Dip Solder/Wire Wrap/  
Right Angle/Card Extender for .093" [2.36] or .125" [3.18] Mating PCB**

### SPECIFICATIONS

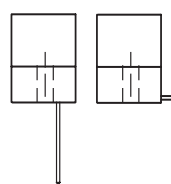
- Accommodates .093"  $\pm$  .008" [2.36  $\pm$  .20] or .125"  $\pm$  .008" [3.18  $\pm$  .20] mating PC board (Consult factory for .031"  $\pm$  .008" [.79  $\pm$  .20] boards)
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current



### READOUT

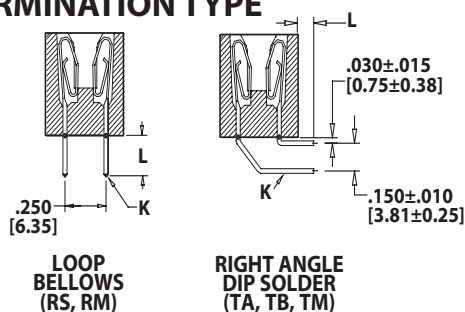


DUAL (D)



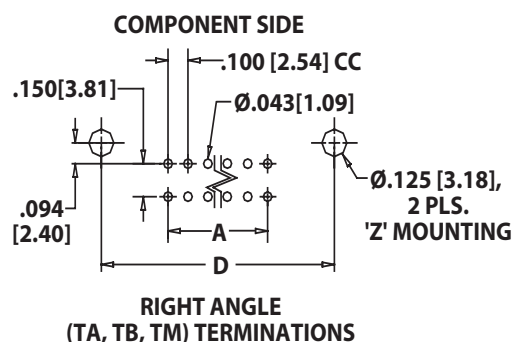
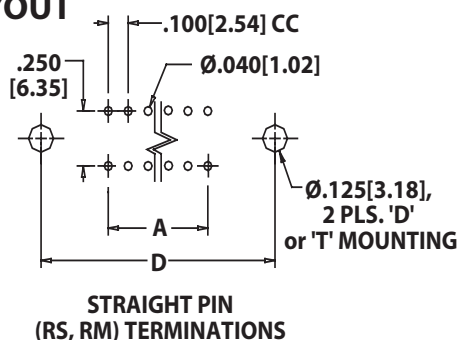
HALF LOADED (H)

### TERMINATION TYPE

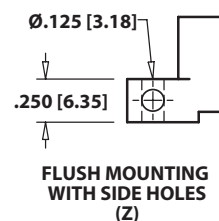
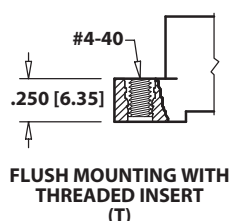
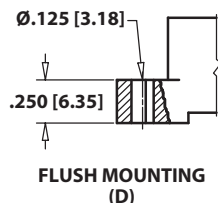


| TERMINATION TYPE |             | POST CROSS SECTION (K) | POST LENGTH L $\pm$ .025 [.64] | FITS MIN. HOLE SIZE |
|------------------|-------------|------------------------|--------------------------------|---------------------|
| RS               | Dip Solder  | .025 [.64] SQUARE      | .190 [4.83]                    | .040 [1.02]         |
| RM               | Wire Wrap   | .025 [.64] SQUARE      | .560 [14.20]                   | .040 [1.02]         |
| TA               | Right Angle | .025 [.64] SQUARE      | .100 [2.54]                    | .043 [1.09]         |
| TB               | Right Angle | .025 [.64] SQUARE      | .180 [4.57]                    | .043 [1.09]         |
| TM               | Right Angle | .025 [.64] SQUARE      | .250 [6.35]                    | .043 [1.09]         |

### PCB LAYOUT



### MOUNTING STYLE



**.100" [2.54mm] Contact Centers, .610" Insulator Height, Dip Solder/Wire Wrap/  
Right Angle/Card Extender for .093" [2.36] or .125" [3.18] Mating PCB**

**PART NUMBER CODING**

**MATERIALS (Insulator /Contact)**

E = PBT/Phosphor Bronze  
R = PPS/Phosphor Bronze  
G = PA9T/Phosphor Bronze  
H = PBT/Beryllium Copper  
A = PPS/Beryllium Copper  
J = PA9T/Beryllium Copper  
(Consult Factory for Other Materials)

**CONTACT FINISH - RoHS Compliant**

**All platings are Lead Free and have .000050" Nickel underplate**

**Contact Surface**

B = .000010" Gold  
C = .000030" Gold  
G = .000010" Gold  
Y = .000030" Gold

**Contact Surface**

S = .000010" Gold  
M = .000030" Gold  
E = .000100" Pure Tin, Matte

**Termination**

.000100" Pure Tin, Matte  
.000100" Pure Tin, Matte

**Overall Plating**

.000010" Gold  
.000010" Gold  
.000100" Pure Tin, Matte

**E B C 70 D RM D - S273**

**MODIFICATION CODE (Consult Factory)**

-S273 = FOR .093" ± .008" [2.36 ± .20]  
THICK MATING PCB  
-S664 = FOR .125" ± .008" [3.18 ± .20]  
THICK MATING PCB

**MOUNTING STYLE (Opposite Page)**

N = No Mounting  
D = Flush Mounting  
T = Flush Mounting With Threaded Inserts  
Z = Flush Mounting With Side Holes

**TERMINATION TYPE (Opposite Page)**

RS = .025" [0.64mm] Square Dip Solder  
RM = .025" [0.64mm] Square Wire Wrap  
TA, TB, TM = .025" [0.64mm] Square Right Angle

**READOUT (Opposite Page)**

D = Dual  
H = Half Loaded

**NUMBER OF CONTACT POSITIONS**

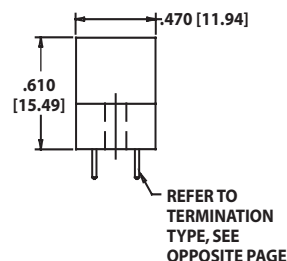
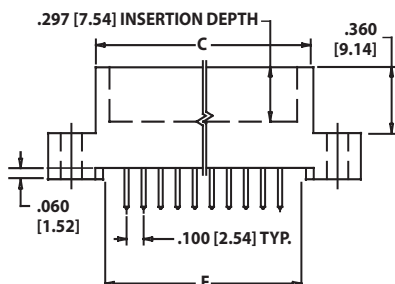
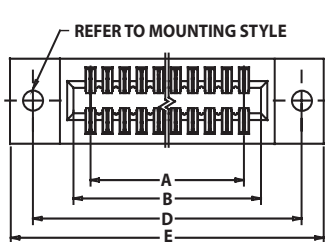
See Chart Below

**CONTACT CENTERS**

C = .100" [2.54mm]

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.015 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.38 |
| 06/12                  | 0.500  | 0.700  | 0.860  | 1.175  | 1.435  | 0.750  | 12.70         | 17.78  | 21.84  | 29.85  | 36.45  | 19.05  |
| 07/14*                 | 0.600  | 0.800  | 0.960  | 1.275  | 1.535  | 0.850  | 15.24         | 20.32  | 24.38  | 32.39  | 38.99  | 21.59  |
| 08/16*                 | 0.700  | 0.900  | 1.060  | 1.375  | 1.635  | 0.950  | 17.78         | 22.86  | 26.92  | 34.93  | 41.53  | 24.13  |
| 10/20                  | 0.900  | 1.100  | 1.260  | 1.575  | 1.835  | 1.150  | 22.86         | 27.94  | 32.00  | 40.01  | 46.61  | 29.21  |
| 12/24                  | 1.100  | 1.300  | 1.460  | 1.775  | 2.035  | 1.350  | 27.94         | 33.02  | 37.08  | 45.09  | 51.69  | 34.29  |
| 15/30*                 | 1.400  | 1.600  | 1.760  | 2.075  | 2.335  | 1.650  | 35.56         | 40.64  | 44.70  | 52.71  | 59.31  | 41.91  |
| 17/34*                 | 1.600  | 1.800  | 1.960  | 2.275  | 2.535  | 1.850  | 40.64         | 45.72  | 49.78  | 57.79  | 64.39  | 46.99  |
| 18/36                  | 1.700  | 1.900  | 2.060  | 2.375  | 2.635  | 1.950  | 43.18         | 48.26  | 52.32  | 60.33  | 66.93  | 49.53  |
| 20/40*                 | 1.900  | 2.100  | 2.260  | 2.575  | 2.835  | 2.150  | 48.26         | 53.34  | 57.40  | 65.41  | 72.01  | 54.61  |
| 22/44                  | 2.100  | 2.300  | 2.460  | 2.775  | 3.035  | 2.350  | 53.34         | 58.42  | 62.48  | 70.49  | 77.09  | 59.69  |
| 24/48*                 | 2.300  | 2.500  | 2.660  | 2.975  | 3.235  | 2.550  | 58.42         | 63.50  | 67.56  | 75.57  | 82.17  | 64.77  |
| 25/50*                 | 2.400  | 2.600  | 2.760  | 3.075  | 3.335  | 2.650  | 60.96         | 66.04  | 70.10  | 78.11  | 84.71  | 67.31  |
| 28/56*                 | 2.700  | 2.900  | 3.060  | 3.375  | 3.635  | 2.950  | 68.58         | 73.66  | 77.72  | 85.73  | 92.33  | 74.93  |
| 30/60                  | 2.900  | 3.100  | 3.260  | 3.575  | 3.835  | 3.150  | 73.66         | 78.74  | 82.80  | 90.81  | 97.41  | 80.01  |
| 31/62*                 | 3.000  | 3.200  | 3.360  | 3.675  | 3.935  | 3.250  | 76.20         | 81.28  | 85.34  | 93.35  | 99.95  | 82.55  |
| 35/70                  | 3.400  | 3.600  | 3.760  | 4.075  | 4.335  | 3.650  | 86.36         | 91.44  | 95.50  | 103.51 | 110.11 | 92.71  |
| 36/72                  | 3.500  | 3.700  | 3.860  | 4.175  | 4.435  | 3.750  | 88.90         | 93.98  | 98.04  | 106.05 | 112.65 | 95.25  |
| 40/80*                 | 3.900  | 4.100  | 4.260  | 4.575  | 4.835  | 4.150  | 99.06         | 104.14 | 108.20 | 116.21 | 122.81 | 105.41 |
| 43/86*                 | 4.200  | 4.400  | 4.560  | 4.875  | 5.135  | 4.450  | 106.68        | 111.76 | 115.82 | 123.83 | 130.43 | 113.03 |
| 44/88*                 | 4.300  | 4.500  | 4.660  | 4.975  | 5.235  | 4.550  | 109.22        | 114.30 | 118.36 | 126.37 | 132.97 | 115.57 |
| 49/98*                 | 4.800  | 5.000  | 5.160  | 5.475  | 5.735  | 5.050  | 121.92        | 127.00 | 131.06 | 139.07 | 145.67 | 128.27 |
| 50/100                 | 4.900  | 5.100  | 5.260  | 5.575  | 5.835  | 5.150  | 124.46        | 129.54 | 133.60 | 141.61 | 148.21 | 130.81 |
| 55/110                 | 5.400  | 5.600  | 5.760  | 6.075  | 6.335  | 5.650  | 137.16        | 142.24 | 146.30 | 154.31 | 160.91 | 143.51 |
| 60/120                 | 5.900  | 6.100  | 6.260  | 6.575  | 6.835  | 6.150  | 149.86        | 154.94 | 159.00 | 167.01 | 173.61 | 156.21 |
| 61/122                 | 6.000  | 6.200  | 6.360  | 6.675  | 6.935  | 6.250  | 152.40        | 157.48 | 161.54 | 169.55 | 176.15 | 158.75 |
| 65/130*                | 6.400  | 6.600  | 6.760  | 7.075  | 7.335  | 6.650  | 162.56        | 167.64 | 171.70 | 179.71 | 186.31 | 168.91 |
| 70/140                 | 6.900  | 7.100  | 7.260  | 7.575  | 7.835  | 7.150  | 175.26        | 180.34 | 184.40 | 192.41 | 199.01 | 181.61 |

\* Consult factory for availability.



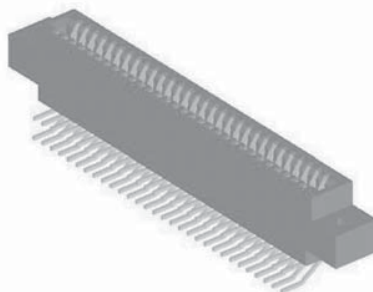
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

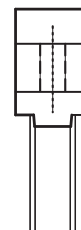
**.100" [2.54mm] Contact Centers, .610" Profile, .400" Wide Body for .062" or .093" Mating PCB, Dip Solder/Wire Wrap/Right Angle/Card Extender**

### SPECIFICATIONS

- Accommodates .062"  $\pm$  .008 [1.57  $\pm$  .20] or .093"  $\pm$  .008" [2.36  $\pm$  .20] PC board
- PPS, PBT or PA9T insulator
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

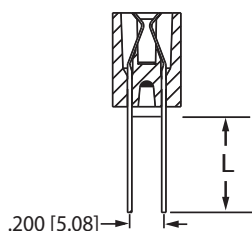


### READOUT

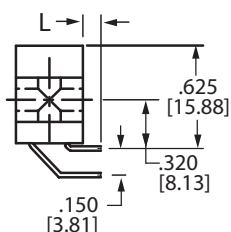


DUAL (D)

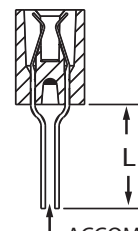
### TERMINATION TYPE



DIP SOLDER/WIRE WRAP  
(KS, KD, KM)



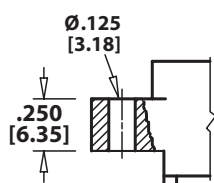
RIGHT ANGLE  
(KA, KE, KU, KJ)



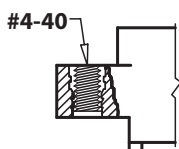
CARD EXTENDER  
(KR, KN)

| TERMINATION | TERMINATION TYPE | POST LENGTH<br>L $\pm$ .025 [.64] | FITS MIN.<br>HOLE SIZE | STANDOFF |
|-------------|------------------|-----------------------------------|------------------------|----------|
| KD          | DIP SOLDER       | .160 [4.06]                       | .043 [1.09]            | YES      |
| KS          | DIP SOLDER       | .190 [4.83]                       | .040 [1.02]            | YES      |
| KM          | WIRE WRAP        | .560 [14.22]                      | .040 [1.02]            | YES      |
| KA          | RIGHT ANGLE      | .100 [2.54]                       | .043 [1.09]            | NO       |
| KE          | RIGHT ANGLE      | .180 [4.57]                       | .043 [1.09]            | NO       |
| KU          | RIGHT ANGLE      | .250 [6.35]                       | .043 [1.09]            | NO       |
| KJ          | RIGHT ANGLE      | .500 [12.70]                      | .043 [1.09]            | NO       |
| KR          | CARD EXTENDER    | .235 [5.97]                       | N/A                    | NO       |
| KN          | CARD EXTENDER    | .605 [15.37]                      | N/A                    | NO       |

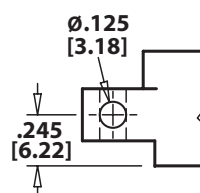
### MOUNTING STYLE



CLEARANCE  
HOLE (H)



THREADED  
INSERT (I)



SIDE MOUNTING  
(S)



NO MOUNTING  
EARS (N)



**.100" [2.54mm] Contact Centers, .610" Profile, .400" Wide Body for .062" or .093" Mating PCB, Dip Solder/Wire Wrap/Right Angle/Card Extender**

**PART NUMBER CODING**

**MATERIALS (Insulator /Contact)**

E = PBT/Phosphor Bronze  
R = PPS/Phosphor Bronze  
G = PA9T/Phosphor Bronze  
H = PBT/Beryllium Copper  
A = PPS/Beryllium Copper  
J = PA9T/Beryllium Copper  
(Consult Factory for Other Materials)

**CONTACT FINISH - RoHS Compliant**

**All platings are Lead Free and have .000050" Nickel underplate**  
**Contact Surface Termination**

B = .000010" Gold .000100" Pure Tin, Matte  
C = .000030" Gold .000100" Pure Tin, Matte  
Y = .000030" Gold .000005" Gold

**CONTACT CENTERS**

C = .100" [2.54mm]

**A B C 30 D KE H - S1191**

**MODIFICATION CODE (Consult Factory)**

**-S1243** = For .062" ± .008 [1.57" ± .20] PCB  
**-S1191** = For .093" ± .008" [2.36 ± .20] PCB

**MOUNTING STYLE (Opposite Page)**

H = Clearance Holes  
I = Threaded Inserts  
S = Side Mounting  
N = No Mounting

**TERMINATION TYPE (Opposite Page)**

KD, KS = .025" [.64] Square Dip Solder  
KM = .025" [.64] Square Wire Wrap  
KA, KE, KU, KJ = .025" [.64mm] Square Right Angle  
KN, KR = .025" [.64mm] Square Card Extender

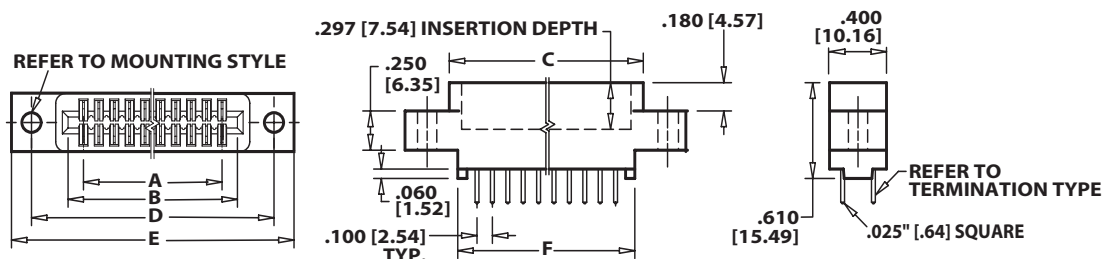
**READOUT (Opposite Page)**

D = Dual

**NUMBER OF CONTACT POSITIONS**  
See Chart Below

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

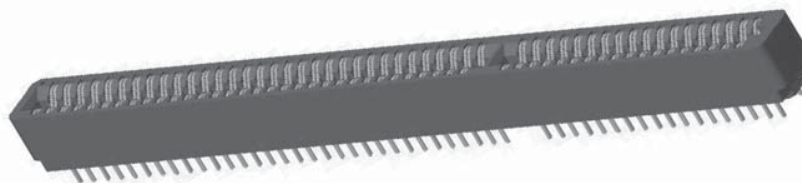
| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.012 | C±.015 | D±.010 | E±.020 | F±.015 | A±0.20        | B±0.30 | C±0.38 | D±0.25 | E±0.51 | F±0.38 |
| 06/12                  | 0.500  | 0.700  | 0.860  | 1.175  | 1.435  | 0.742  | 12.70         | 17.78  | 21.84  | 29.85  | 36.45  | 18.85  |
| 07/14                  | 0.600  | 0.800  | 0.960  | 1.275  | 1.535  | 0.842  | 15.24         | 20.32  | 24.38  | 32.39  | 38.99  | 21.39  |
| 08/16                  | 0.700  | 0.900  | 1.060  | 1.375  | 1.635  | 0.942  | 17.78         | 22.86  | 26.92  | 34.93  | 41.53  | 23.93  |
| 10/20                  | 0.900  | 1.100  | 1.260  | 1.575  | 1.835  | 1.142  | 22.86         | 27.94  | 32.00  | 40.01  | 46.61  | 29.01  |
| 12/24                  | 1.100  | 1.300  | 1.460  | 1.775  | 2.035  | 1.342  | 27.94         | 33.02  | 37.08  | 45.09  | 51.69  | 34.09  |
| 13/26                  | 1.200  | 1.400  | 1.560  | 1.875  | 2.135  | 1.442  | 30.48         | 35.56  | 39.62  | 47.63  | 54.23  | 36.63  |
| 15/30                  | 1.400  | 1.600  | 1.760  | 2.075  | 2.335  | 1.642  | 35.56         | 40.64  | 44.70  | 52.71  | 59.31  | 41.71  |
| 17/34                  | 1.600  | 1.800  | 1.960  | 2.275  | 2.535  | 1.842  | 40.64         | 45.72  | 49.78  | 57.79  | 64.39  | 46.79  |
| 18/36                  | 1.700  | 1.900  | 2.060  | 2.375  | 2.635  | 1.942  | 43.18         | 48.26  | 52.32  | 60.33  | 66.93  | 49.33  |
| 20/40                  | 1.900  | 2.100  | 2.260  | 2.575  | 2.835  | 2.142  | 48.26         | 53.34  | 57.40  | 65.41  | 72.01  | 54.41  |
| 22/44                  | 2.100  | 2.300  | 2.460  | 2.775  | 3.035  | 2.342  | 53.34         | 58.42  | 62.48  | 70.49  | 77.09  | 59.49  |
| 24/48                  | 2.300  | 2.500  | 2.660  | 2.975  | 3.235  | 2.542  | 58.42         | 63.50  | 67.56  | 75.57  | 82.17  | 64.57  |
| 25/50                  | 2.400  | 2.600  | 2.760  | 3.075  | 3.335  | 2.642  | 60.96         | 66.04  | 70.10  | 78.11  | 84.71  | 67.11  |
| 28/56                  | 2.700  | 2.900  | 3.060  | 3.375  | 3.635  | 2.942  | 68.58         | 73.66  | 77.72  | 85.73  | 92.33  | 74.73  |
| 30/60                  | 2.900  | 3.100  | 3.260  | 3.575  | 3.835  | 3.142  | 73.66         | 78.74  | 82.80  | 90.81  | 97.41  | 79.81  |
| 31/62                  | 3.000  | 3.200  | 3.360  | 3.675  | 3.935  | 3.242  | 76.20         | 81.28  | 85.34  | 93.35  | 99.95  | 82.35  |
| 35/70                  | 3.400  | 3.600  | 3.760  | 4.075  | 4.335  | 3.642  | 86.36         | 91.44  | 95.50  | 103.51 | 110.11 | 92.51  |
| 36/72                  | 3.500  | 3.700  | 3.860  | 4.175  | 4.435  | 3.742  | 88.90         | 93.98  | 98.04  | 106.05 | 112.65 | 95.05  |
| 40/80                  | 3.900  | 4.100  | 4.260  | 4.575  | 4.835  | 4.142  | 99.06         | 104.14 | 108.20 | 116.21 | 122.81 | 105.21 |
| 43/86                  | 4.200  | 4.400  | 4.560  | 4.875  | 5.135  | 4.442  | 106.68        | 111.76 | 115.82 | 123.83 | 130.43 | 112.83 |
| 44/88                  | 4.300  | 4.500  | 4.660  | 4.975  | 5.235  | 4.542  | 109.22        | 114.30 | 118.36 | 126.37 | 132.97 | 115.37 |
| 49/98                  | 4.800  | 5.000  | 5.160  | 5.475  | 5.735  | 5.042  | 121.92        | 127.00 | 131.06 | 139.07 | 145.67 | 128.07 |
| 50/100                 | 4.900  | 5.100  | 5.260  | 5.575  | 5.835  | 5.142  | 124.46        | 129.54 | 133.60 | 141.61 | 148.21 | 130.61 |
| 55/110                 | 5.400  | 5.600  | 5.760  | 6.075  | 6.335  | 5.642  | 137.16        | 142.24 | 146.30 | 154.31 | 160.91 | 143.31 |
| 60/120                 | 5.900  | 6.100  | 6.260  | 6.575  | 6.835  | 6.142  | 149.86        | 154.94 | 159.00 | 167.01 | 173.61 | 156.01 |
| 61/122                 | 6.000  | 6.200  | 6.360  | 6.675  | 6.935  | 6.242  | 152.40        | 157.48 | 161.54 | 169.55 | 176.15 | 158.55 |
| 65/130                 | 6.400  | 6.600  | 6.760  | 7.075  | 7.335  | 6.642  | 162.56        | 167.64 | 171.70 | 179.71 | 186.31 | 168.71 |
| 70/140                 | 6.900  | 7.100  | 7.260  | 7.575  | 7.835  | 7.142  | 175.26        | 180.34 | 184.40 | 192.41 | 199.01 | 181.41 |



## Sullins Edgecards

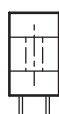
MICROPLASTICS  
**SULLINS**

**.100" [2.54mm] Contact Centers, .610" Insulator Height,  
[ISA] Dip Solder/Wire Wrap/Right Angle**

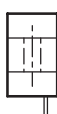


Sullins Edgecards

### READOUT



DUAL (D)



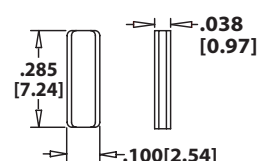
HALF LOADED (H)

### SPECIFICATIONS

- Accommodates .062" ± .008" [1.57 ± .20] PC board
- PBT or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

### POLARIZING KEY

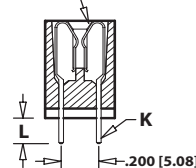
#### PLC-K1



**KEY IN BETWEEN CONTACTS  
(ORDER SEPARATELY)**

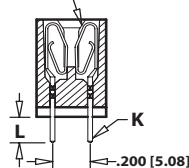
### TERMINATION TYPE

#### HAIRPIN BELLOWS

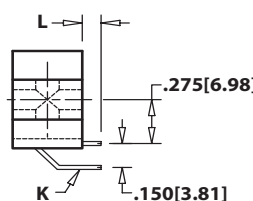


HAIRPIN BELLOWS  
(CS,CM,CW,CT)

#### LOOP BELLOWS



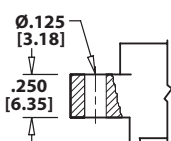
LOOP BELLOWS  
(TK,RS,RM)



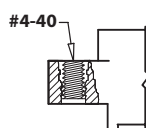
RIGHT ANGLE, DIP SOLDER  
(CA,CB,CC,TA,TB,TM)  
-S605 MODIFICATION

| HAIRPIN BELLOWS | LOOP   | TERMINATION TYPE | POST CROSS SECTION K    | POST LENGTH L .025 [.64] | FITS MIN. HOLE SIZE |
|-----------------|--------|------------------|-------------------------|--------------------------|---------------------|
| CM              | TK, CK | DIP SOLDER       | .026 [.66] ROUND        | .190 [4.83]              | .030 [0.76]         |
|                 | RS     | DIP SOLDER       | .025 [.64] SQUARE       | .190 [4.83]              | .040 [1.02]         |
|                 | RM     | WIRE WRAP        | .025 [.64] SQUARE       | .560 [14.20]             | .040 [1.02]         |
|                 | TA     | RIGHT ANGLE      | .025 [.64] SQUARE       | .100 [2.54]              | .043 [1.09]         |
| CB              | TB     | RIGHT ANGLE      | .025 [.64] SQUARE       | .180 [4.57]              | .043 [1.09]         |
| CC              | TM     | RIGHT ANGLE      | .025 [.64] SQUARE       | .250 [6.35]              | .043 [1.09]         |
| CW              |        | DIP SOLDER       | .015 X .025 [.38 X .64] | .125 [3.18]              | .035 [0.76]         |
| CT              |        | DIP SOLDER       | .015 X .025 [.38 X .64] | .170 [4.32]              | .035 [0.76]         |
| CS              |        | DIP SOLDER       | .025 [.64] SQUARE       | .160 [4.06]              | .040 [1.02]         |

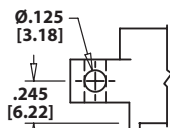
### MOUNTING STYLE



CLEARANCE HOLE (H)



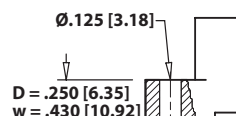
THREADED INSERT (I)



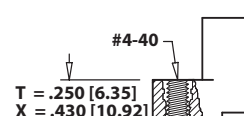
SIDE MOUNTING (S)



NO MOUNTING EARS (N)



FLUSH MOUNTING (D, W)



FLUSH MOUNTING WITH THREADED INSERT (T, X)



## PART NUMBER CODING

**E B C 49 D CW N - S420**

### MATERIALS (Insulator/Contact)

E = PBT/Phosphor Bronze (Standard)  
G = PA9T/Phosphor Bronze  
H = PBT/Beryllium Copper  
J = PA9T/Beryllium Copper  
(Consult Factory for Other Materials)

### CONTACT FINISH - RoHS Compliant

All platings are Lead Free and have .000050" Nickel underplate

|     | Contact Surface          | Termination              |
|-----|--------------------------|--------------------------|
| B = | .000010" Gold            | .000100" Pure Tin, Matte |
| C = | .000030" Gold            | .000100" Pure Tin, Matte |
| G = | .000010" Gold            | .000005" Gold            |
| Y = | .000030" Gold            | .000005" Gold            |
|     | Contact Surface          | Overall Plating          |
| S = | .000010" Gold            | .000010" Gold            |
| M = | .000030" Gold            | .000010" Gold            |
| E = | .000100" Pure Tin, Matte | .000100" Pure Tin, Matte |

### CONTACT CENTERS

C = .100" [2.54mm]

### NUMBER OF CONTACT POSITIONS

18, 31 or 49 (18/31)

### READOUT (Opposite page)

D = Dual  
H = Half Loaded

### MODIFICATION CODE (Consult Factory)

#### ISA WITH RETENTION FEATURE

-S524 = 18 Positions

-S524 = 31 Positions

-S518 = 49 Positions (31/18)

#### ISA WITHOUT RETENTION FEATURE

-S371 = 18 Positions

-S371 = 31 Positions

-S420 = 49 Positions (31/18) Dip Solder or Wire Wrap

-S605 = 49 Positions (31/18) Right Angle

### MOUNTING STYLE (Opposite Page)

H = Clearance Holes  
I = Threaded Inserts  
S = Side Mounting  
N = No Mounting  
D, W = Flush Mounting  
T, X = Flush Mounting With Threaded Inserts

### TERMINATION TYPE (Opposite Page)

#### Hairpin Bellows \*

CS = .025" [0.64mm] Square Dip Solder

CM = .025" [0.64mm] Square Wire Wrap

CA, CB, CC = .025" [0.64mm] Square Right Angle

CW, CT = .015" [0.38mm] x .025" [0.64mm] Dip Solder

#### Loop Bellows

RS = .025" [0.64mm] Square Dip Solder

TK = .026" [0.66mm] Round Dip Solder

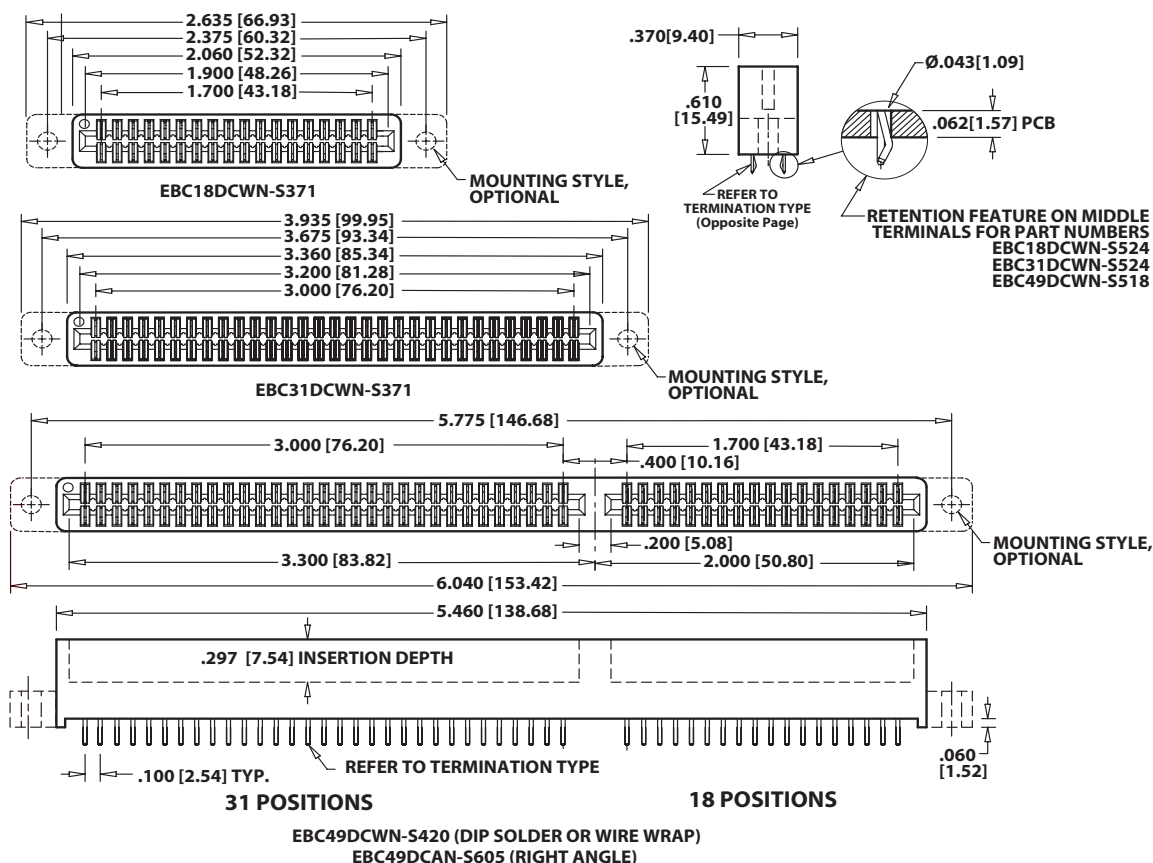
RM = .025" [0.64mm] Square Wire Wrap

TA, TB, TM = .025" [0.64mm] Square Right Angle

\* Available in B or C Plating and Phosphor Bronze only

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.





## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

**.100" [2.54mm] Contact Centers, .690" Insulator Height**  
**Make Before Break Dip Solder/Card Extender/Right Angle**

### SPECIFICATIONS

- Accommodates  $.062" \pm .008" [1.57 \pm .20]$  PC board
- PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current



### READOUT



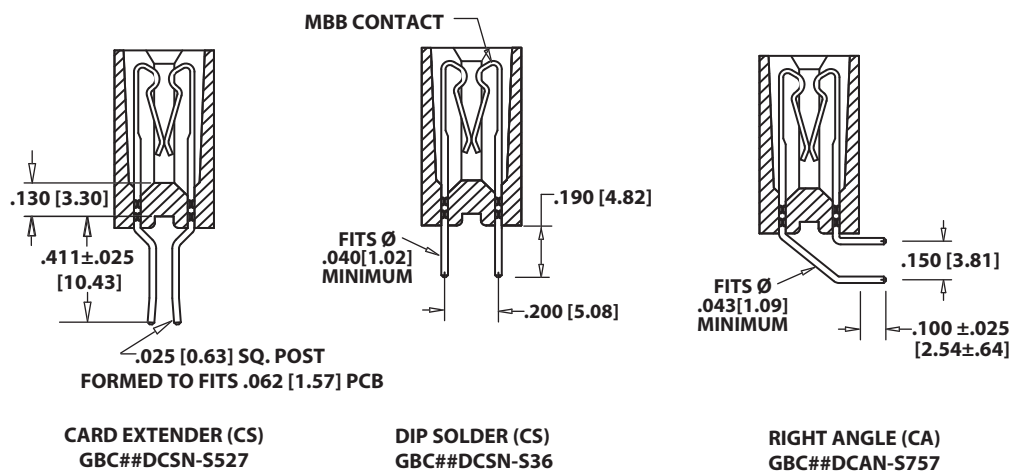
DUAL (D)

### MOUNTING STYLE



NO MOUNTING EARS (N)

### TERMINATION TYPE



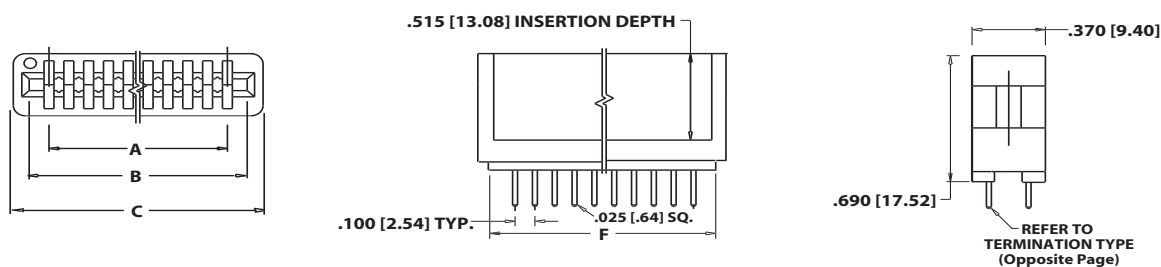
**.100" [2.54mm] Contact Centers, .690" Insulator Height**  
**Make Before Break Dip Solder/Card Extender/Right Angle**

**PART NUMBER CODING**

|                                                                       |          |          |           |                                                       |           |          |             |
|-----------------------------------------------------------------------|----------|----------|-----------|-------------------------------------------------------|-----------|----------|-------------|
| <b>G</b>                                                              | <b>B</b> | <b>C</b> | <b>10</b> | <b>D</b>                                              | <b>CS</b> | <b>N</b> | <b>-S36</b> |
| <b>MATERIALS (INSULATOR/CONTACT)</b>                                  |          |          |           | <b>MODIFICATION CODE</b> (Consult Factory)            |           |          |             |
| G = PA9T/Phosphor Bronze<br>(Consult Factory for Other Materials)     |          |          |           | -S757 = MBB, .150" [3.81mm] Row to Row on Right Angle |           |          |             |
| <b>CONTACT FINISH - RoHS Compliant</b>                                |          |          |           | -S527 = MBB, Card Extender Accepts .062" [1.57] PCB   |           |          |             |
| <b>All platings are Lead Free and have .000050" Nickel underplate</b> |          |          |           | -S36 = MBB, Straight Dip-Solder                       |           |          |             |
| <b>Contact Surface Termination</b>                                    |          |          |           | <b>MOUNTING STYLE</b>                                 |           |          |             |
| B = .000010" Gold .000100" Pure Tin, Matte                            |          |          |           | N = No Mounting                                       |           |          |             |
| C = .000030" Gold .000100" Pure Tin, Matte                            |          |          |           | <b>TERMINATION TYPE (Opposite Page)</b>               |           |          |             |
| <b>CONTACT CENTERS</b>                                                |          |          |           | <b>Hairpin Bellows</b>                                |           |          |             |
| C = .100" [2.54mm]                                                    |          |          |           | CS = Dip Solder .025" [.64] Square                    |           |          |             |
| <b>NUMBER OF CONTACT POSITIONS</b>                                    |          |          |           | CA = Right Angle, .100" [2.54]                        |           |          |             |
| See Chart Below                                                       |          |          |           | <b>READOUT (Opposite Page)</b>                        |           |          |             |
|                                                                       |          |          |           | D = Dual                                              |           |          |             |

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |        | [MILLIMETERS] |        |        |        |
|------------------------|--------|--------|--------|--------|---------------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | F±.015 | A±0.20        | B±0.20 | C±0.38 | F±0.38 |
| 02/04*                 | 0.100  | 0.300  | 0.460  | 0.350  | 2.54          | 7.62   | 11.68  | 8.89   |
| 04/08*                 | 0.300  | 0.500  | 0.660  | 0.550  | 7.62          | 12.70  | 16.76  | 13.97  |
| 06/12*                 | 0.500  | 0.700  | 0.860  | 0.750  | 12.70         | 17.78  | 21.84  | 19.05  |
| 08/16*                 | 0.700  | 0.900  | 1.060  | 0.950  | 17.78         | 22.86  | 26.92  | 24.13  |
| 10/20*                 | 0.900  | 1.100  | 1.260  | 1.150  | 22.86         | 27.94  | 32.00  | 29.21  |
| 12/24                  | 1.100  | 1.300  | 1.460  | 1.350  | 27.94         | 33.02  | 37.08  | 34.29  |
| 14/28                  | 1.300  | 1.500  | 1.660  | 1.550  | 33.02         | 38.10  | 42.16  | 39.37  |
| 16/32*                 | 1.500  | 1.700  | 1.860  | 1.750  | 38.10         | 43.18  | 47.24  | 44.45  |
| 18/36*                 | 1.700  | 1.900  | 2.060  | 1.950  | 43.18         | 48.26  | 52.32  | 49.53  |
| 20/40*                 | 1.900  | 2.100  | 2.260  | 2.150  | 48.26         | 53.34  | 57.40  | 54.61  |
| 22/44*                 | 2.100  | 2.300  | 2.460  | 2.350  | 53.34         | 58.42  | 62.48  | 59.69  |
| 24/48*                 | 2.300  | 2.500  | 2.660  | 2.550  | 58.42         | 63.50  | 67.56  | 64.77  |
| 26/52*                 | 2.500  | 2.700  | 2.860  | 2.750  | 63.50         | 68.58  | 72.64  | 69.85  |
| 28/56*                 | 2.700  | 2.900  | 3.060  | 2.950  | 68.58         | 73.66  | 77.72  | 74.93  |
| 30/60*                 | 2.900  | 3.100  | 3.260  | 3.150  | 73.66         | 78.74  | 82.80  | 80.01  |
| 32/64*                 | 3.100  | 3.300  | 3.460  | 3.350  | 78.74         | 83.82  | 87.88  | 85.09  |
| 34/68*                 | 3.300  | 3.500  | 3.660  | 3.550  | 83.82         | 88.90  | 92.96  | 90.17  |
| 36/72*                 | 3.500  | 3.700  | 3.860  | 3.750  | 88.90         | 93.98  | 98.04  | 95.25  |
| 38/76*                 | 3.700  | 3.900  | 4.060  | 3.950  | 93.98         | 99.06  | 103.12 | 100.33 |
| 40/80*                 | 3.900  | 4.100  | 4.260  | 4.150  | 99.06         | 104.14 | 108.20 | 105.41 |
| 42/84*                 | 4.100  | 4.300  | 4.460  | 4.350  | 104.14        | 109.22 | 113.28 | 110.49 |
| 44/88*                 | 4.300  | 4.500  | 4.660  | 4.550  | 109.22        | 114.30 | 118.36 | 115.57 |
| 46/92*                 | 4.500  | 4.700  | 4.860  | 4.750  | 114.30        | 119.38 | 123.44 | 120.65 |
| 48/96*                 | 4.700  | 4.900  | 5.060  | 4.950  | 119.38        | 124.46 | 128.52 | 125.73 |
| 50/100                 | 4.900  | 5.100  | 5.260  | 5.150  | 124.46        | 129.54 | 133.60 | 130.81 |

\* Consult factory for availability.



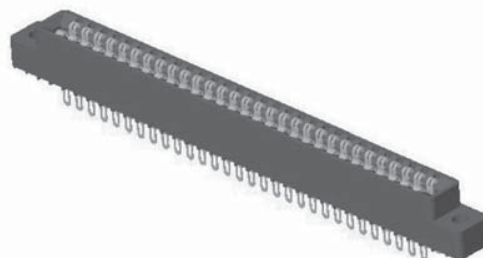
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

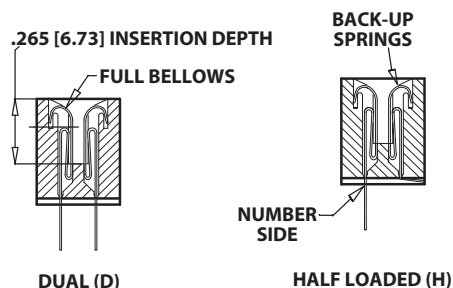
**.125" [3.18mm] Contact Centers, .431" Insulator Height**  
**Dip Solder/Eyelet/Right Angle for .062" [1.57] or .031" [0.79] Mating PCB**

### SPECIFICATIONS

- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board  
(Consult factory for .031"  $\pm$  .008" [.79  $\pm$  .20],  
.093"  $\pm$  .008" [2.36  $\pm$  .20] and .125"  $\pm$  .008"  
[3.18  $\pm$  .20] boards)
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

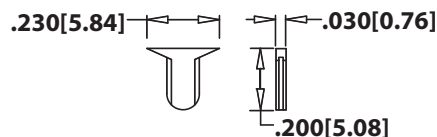


### READOUT



### POLARIZING KEY

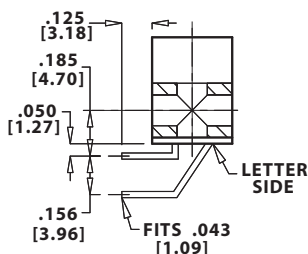
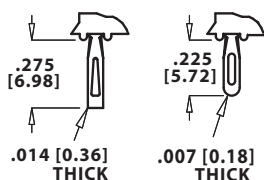
**PLA-K1**  
**KEY IN BETWEEN CONTACTS**  
**(ORDER SEPARATELY)**



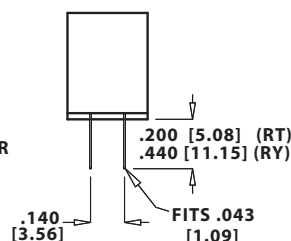
**CONSULT FACTORY FOR MOLDED-IN KEY**

### TERMINATION TYPE

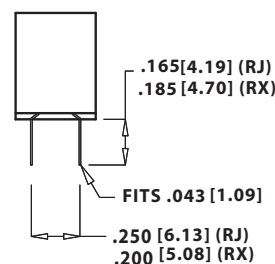
**EYELET ACCEPTS 3-#26 AWG**



**RIGHT ANGLE (RA)**

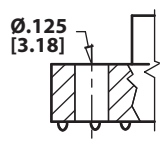


**NARROW DIP SOLDER (RT, RY)**

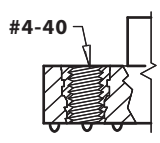


**WIDE DIP SOLDER (RJ, RX)**

### MOUNTING STYLE



**CLEARANCE HOLE (H)**



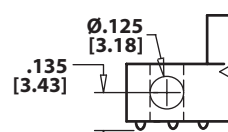
**THREADED INSERT (I)**



**FLOATING BOBBIN (F)**



**NO MOUNTING EARS (N)**



**SIDE MOUNTING (S)**

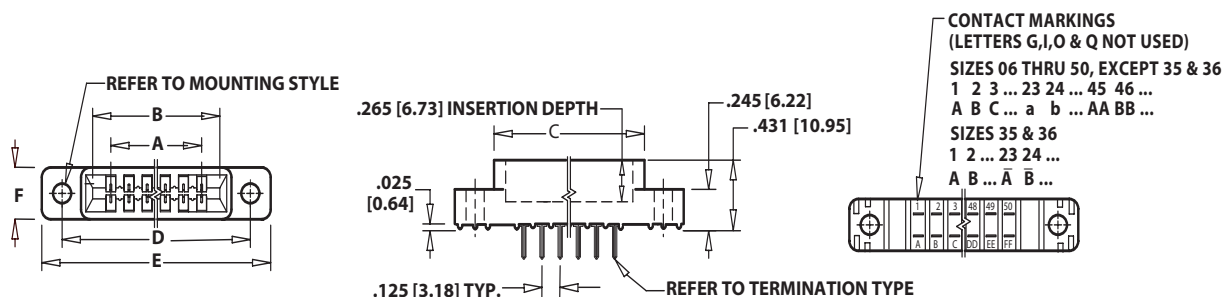


**.125" [3.18mm] Contact Centers, .431" Insulator Height**  
**Dip Solder/Eyelet/Right Angle for .062" [1.57] or .031" [0.79] Mating PCB**

**PART NUMBER CODING**

|                                                                |          |          |          |           |          |           |          |               |                                                                              |
|----------------------------------------------------------------|----------|----------|----------|-----------|----------|-----------|----------|---------------|------------------------------------------------------------------------------|
| <b>MATERIALS (Insulator/Contact)</b>                           | <b>E</b> | <b>B</b> | <b>A</b> | <b>43</b> | <b>D</b> | <b>RE</b> | <b>H</b> | <b>- Sxxx</b> | <b>MODIFICATION CODE</b> (Consult Factory)                                   |
| E = PBT/Phosphor Bronze (Standard)                             |          |          |          |           |          |           |          |               | OMIT FOR STANDARD                                                            |
| R = PPS/Phosphor Bronze                                        |          |          |          |           |          |           |          |               | -S13 = Card Extender Accepts .062" [1.57] PCB (RT, RE, RY Terminations Only) |
| G = PA9T/Phosphor bronze                                       |          |          |          |           |          |           |          |               | -S734 = .031" ± .008" [.79 ± .20] Thick PCB                                  |
| H = PBT/Beryllium Copper                                       |          |          |          |           |          |           |          |               | <b>MOUNTING STYLE (Opposite Page)</b>                                        |
| A = PPS/Beryllium Copper                                       |          |          |          |           |          |           |          |               | H = .125" [3.18mm] Clearance Holes                                           |
| J = PA9T/Beryllium Copper                                      |          |          |          |           |          |           |          |               | N = No Mounting                                                              |
| *F = PPS/Spinodal (Overall Gold Plating Only)                  |          |          |          |           |          |           |          |               | S = Side Mounting                                                            |
| Consult Factory for Special Soldering Guidelines               |          |          |          |           |          |           |          |               | I = Threaded Insert                                                          |
| *C = PPS/Beryllium Nickel (Overall Gold Plating Only)          |          |          |          |           |          |           |          |               | F = Floating Bobbin                                                          |
| *W = PEEK/Beryllium Nickel (Overall Gold Plating Only)         |          |          |          |           |          |           |          |               | <b>TERMINATION TYPE (Opposite Page)</b>                                      |
| *Consult Factory for availability.                             |          |          |          |           |          |           |          |               | RA = Right Angle                                                             |
| <b>CONTACT FINISH - RoHS Compliant</b>                         |          |          |          |           |          |           |          |               | RE = Eyelet (Standard)                                                       |
| All platings are Lead Free and have .000050" Nickel underplate |          |          |          |           |          |           |          |               | TE = Eyelet (Overall Plated Only)                                            |
| <b>Contact Surface</b>                                         |          |          |          |           |          |           |          |               | RT = .140" [3.56mm] x .200" [5.08mm] Dip Solder                              |
| <b>Termination</b>                                             |          |          |          |           |          |           |          |               | RY = .140" [3.56mm] x .440" [11.18mm] Dip Solder                             |
| B = .000010" Gold .000100" Pure Tin, Matte                     |          |          |          |           |          |           |          |               | RX = .200" [5.08mm] x .185" [4.70mm] Dip Solder                              |
| C = .000030" Gold .000100" Pure Tin, Matte                     |          |          |          |           |          |           |          |               | RJ = .250" [6.35mm] x .165" [4.19mm] Dip Solder                              |
| G = .000010" Gold .000005" Gold                                |          |          |          |           |          |           |          |               | <b>READOUT (Opposite Page)</b>                                               |
| Y = .000030" Gold .000005" Gold                                |          |          |          |           |          |           |          |               | D = Dual                                                                     |
| <b>Contact Surface</b>                                         |          |          |          |           |          |           |          |               | H = Half Loaded                                                              |
| <b>Overall Plating</b>                                         |          |          |          |           |          |           |          |               | <b>NUMBER OF CONTACT POSITIONS</b>                                           |
| S = .000010" Gold .000010" Gold                                |          |          |          |           |          |           |          |               | See Chart Below                                                              |
| M = .000030" Gold .000010" Gold                                |          |          |          |           |          |           |          |               |                                                                              |
| E = .000100" Pure Tin, Matte .000100" Pure Tin, Matte          |          |          |          |           |          |           |          |               |                                                                              |
| <b>CONTACT CENTERS</b>                                         |          |          |          |           |          |           |          |               |                                                                              |
| A = .125" [3.18mm]                                             |          |          |          |           |          |           |          |               |                                                                              |

**DIMENSIONS** Dimensions in [ ] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

| Positions/<br>Contacts | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.005 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.13 |
| 06/12                  | 0.625  | 0.875  | 1.035  | 1.295  | 1.575  | 0.330  | 15.88         | 22.23  | 26.29  | 32.89  | 40.01  | 8.38   |
| 10/20                  | 1.125  | 1.375  | 1.535  | 1.795  | 2.075  |        | 28.58         | 34.93  | 38.99  | 45.59  | 52.71  |        |
| 14/28                  | 1.625  | 1.875  | 2.035  | 2.295  | 2.575  |        | 41.28         | 47.63  | 51.69  | 58.29  | 65.41  |        |
| 15/30                  | 1.750  | 2.000  | 2.160  | 2.420  | 2.700  |        | 44.45         | 50.80  | 54.86  | 61.47  | 68.58  |        |
| 18/36                  | 2.125  | 2.375  | 2.535  | 2.795  | 3.075  |        | 53.98         | 60.33  | 64.39  | 70.99  | 78.11  |        |
| 22/44                  | 2.625  | 2.875  | 3.035  | 3.295  | 3.575  |        | 66.68         | 73.03  | 77.09  | 83.69  | 90.81  |        |
| 28/56                  | 3.375  | 3.625  | 3.785  | 4.045  | 4.325  |        | 85.73         | 92.08  | 96.14  | 102.74 | 109.86 |        |
| 30/60                  | 3.625  | 3.875  | 4.035  | 4.295  | 4.575  |        | 92.08         | 98.43  | 102.49 | 109.09 | 116.21 |        |
| 31/62                  | 3.750  | 4.000  | 4.160  | 4.420  | 4.700  |        | 95.25         | 101.60 | 105.66 | 112.27 | 119.38 |        |
| 35/70                  | 4.250  | 4.500  | 4.660  | 4.920  | 5.200  |        | 107.95        | 114.30 | 118.36 | 124.97 | 132.08 |        |
| 36/72                  | 4.375  | 4.625  | 4.785  | 5.045  | 5.325  | 0.370  | 111.13        | 117.48 | 121.54 | 128.14 | 135.26 | 9.40   |
| 37/74                  | 4.500  | 4.750  | 4.910  | 5.170  | 5.450  |        | 114.30        | 120.65 | 124.71 | 131.32 | 138.43 |        |
| 40/80                  | 4.875  | 5.125  | 5.285  | 5.545  | 5.825  |        | 123.83        | 130.18 | 134.24 | 140.84 | 147.96 |        |
| 43/86                  | 5.250  | 5.500  | 5.660  | 5.920  | 6.200  |        | 133.35        | 139.70 | 143.76 | 150.37 | 157.48 |        |
| 44/88                  | 5.375  | 5.625  | 5.785  | 6.045  | 6.325  |        | 136.53        | 142.88 | 146.94 | 153.54 | 160.66 |        |
| 49/98                  | 6.000  | 6.250  | 6.410  | 6.670  | 6.950  |        | 152.40        | 158.75 | 162.81 | 169.42 | 176.53 |        |
| 50/100                 | 6.125  | 6.375  | 6.535  | 6.795  | 7.075  |        | 155.58        | 161.93 | 165.99 | 172.59 | 179.71 |        |



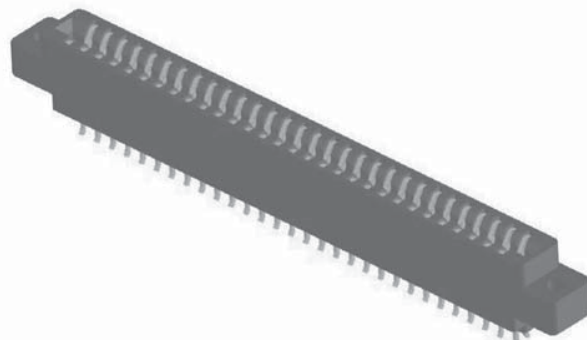
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

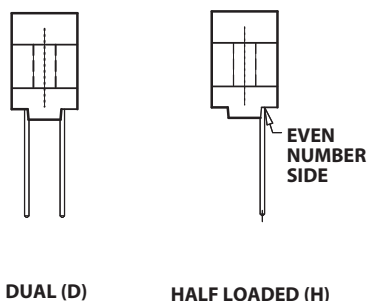
### .125" [3.18mm] Contact Centers, .610" Insulator Height Dip Solder/Wire Wrap/Right Angle

#### SPECIFICATIONS

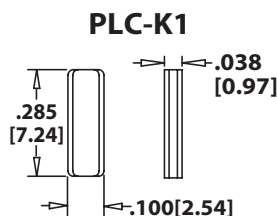
- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board (Consult factory for .031"  $\pm$  .008" [.79  $\pm$  .20], See page 52/53 for .093"  $\pm$  .008" [2.36  $\pm$  .20] and .125"  $\pm$  .008" [3.18  $\pm$  .20] PC boards)
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current
- Consult Factory for (MBB) Contacts



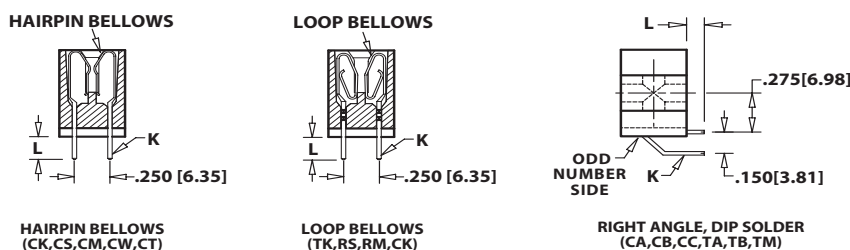
#### READOUT



#### POLARIZING KEY

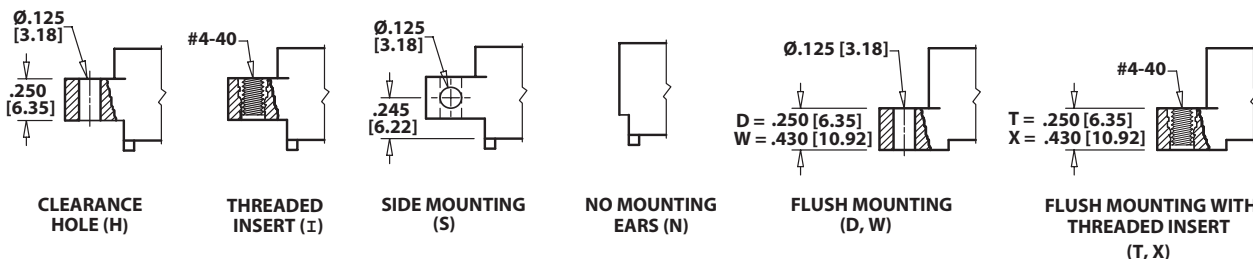


#### TERMINATION TYPE



| HAIRPIN BELLOWS                        | LOOP   | TERMINATION TYPE | POST CROSS SECTION K    | POST LENGTH L .025 [.64] | FITS MIN. HOLE SIZE |
|----------------------------------------|--------|------------------|-------------------------|--------------------------|---------------------|
| CM<br>CA<br>CB<br>CC<br>CW<br>CT<br>CS | TK, CK | DIP SOLDER       | .026 [.66] ROUND        | .190 [4.83]              | .030 [0.76]         |
|                                        | RS     | DIP SOLDER       | .025 [.64] SQUARE       | .190 [4.83]              | .040 [1.02]         |
|                                        | RM     | WIRE WRAP        | .025 [.64] SQUARE       | .560 [14.20]             | .040 [1.02]         |
|                                        | TA     | RIGHT ANGLE      | .025 [.64] SQUARE       | .100 [2.54]              | .043 [1.09]         |
|                                        | TB     | RIGHT ANGLE      | .025 [.64] SQUARE       | .180 [4.57]              | .043 [1.09]         |
|                                        | TM     | RIGHT ANGLE      | .025 [.64] SQUARE       | .250 [6.35]              | .043 [1.09]         |
|                                        |        | DIP SOLDER       | .015 X .025 [.38 X .64] | .125 [3.18]              | .035 [0.76]         |
|                                        |        | DIP SOLDER       | .015 X .025 [.38 X .64] | .170 [4.32]              | .035 [0.76]         |
|                                        |        | DIP SOLDER       | .025 [.64] SQUARE       | .160 [4.06]              | .040 [1.02]         |

#### MOUNTING STYLE





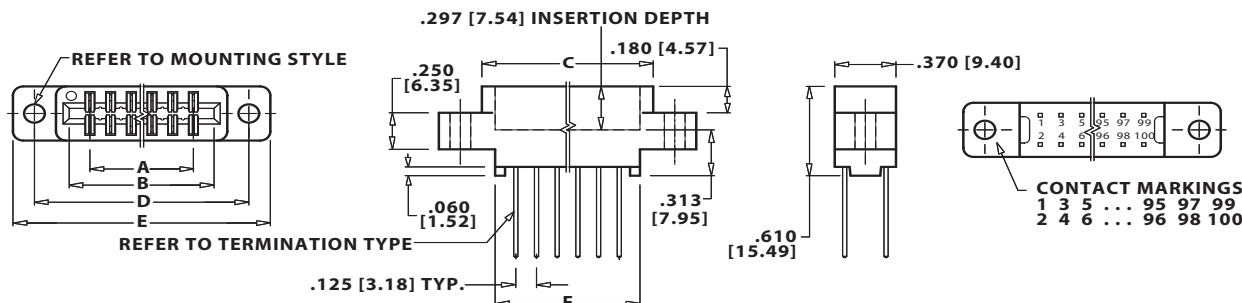
**.125" [3.18mm] Contact Centers, .610" Insulator Height**  
**Dip Solder/Wire Wrap/Right Angle**

**PART NUMBER CODING**

|                                                                 |          |          |          |           |          |           |          |               |                                                |
|-----------------------------------------------------------------|----------|----------|----------|-----------|----------|-----------|----------|---------------|------------------------------------------------|
| <b>MATERIALS (Insulator/Contact)</b>                            | <b>E</b> | <b>B</b> | <b>A</b> | <b>50</b> | <b>D</b> | <b>CM</b> | <b>H</b> | <b>- Sxxx</b> | <b>MODIFICATION CODE (Consult Factory)</b>     |
| E = PBT/Phosphor Bronze (Standard)                              |          |          |          |           |          |           |          |               | OMIT FOR STANDARD                              |
| R = PPS/Phosphor Bronze                                         |          |          |          |           |          |           |          |               | -S288 = Card Extender Accepts .062" [1.57] PCB |
| G = PA9T/Phosphor Bronze                                        |          |          |          |           |          |           |          |               |                                                |
| A = PPS/Beryllium Copper                                        |          |          |          |           |          |           |          |               |                                                |
| J = PA9T/Beryllium Copper                                       |          |          |          |           |          |           |          |               |                                                |
| (Consult Factory for Other Materials)                           |          |          |          |           |          |           |          |               |                                                |
| <b>CONTACT FINISH - RoHS Compliant</b>                          |          |          |          |           |          |           |          |               |                                                |
| All platings are Lead Free and have .000050" Nickel underplate  |          |          |          |           |          |           |          |               |                                                |
| <b>Contact Surface</b>                                          |          |          |          |           |          |           |          |               |                                                |
| B = .000010" Gold                                               |          |          |          |           |          |           |          |               |                                                |
| C = .000030" Gold                                               |          |          |          |           |          |           |          |               |                                                |
| G = .000010" Gold                                               |          |          |          |           |          |           |          |               |                                                |
| Y = .000030" Gold                                               |          |          |          |           |          |           |          |               |                                                |
| <b>Termination</b>                                              |          |          |          |           |          |           |          |               |                                                |
| B = .000100" Pure Tin, Matte                                    |          |          |          |           |          |           |          |               |                                                |
| C = .000100" Pure Tin, Matte                                    |          |          |          |           |          |           |          |               |                                                |
| G = .000005" Gold                                               |          |          |          |           |          |           |          |               |                                                |
| Y = .000005" Gold                                               |          |          |          |           |          |           |          |               |                                                |
| <b>Overall Plating</b>                                          |          |          |          |           |          |           |          |               |                                                |
| S = .000010" Gold                                               |          |          |          |           |          |           |          |               |                                                |
| M = .000030" Gold                                               |          |          |          |           |          |           |          |               |                                                |
| E = .000100" Pure Tin, Matte                                    |          |          |          |           |          |           |          |               |                                                |
| <b>CONTACT CENTERS</b>                                          |          |          |          |           |          |           |          |               |                                                |
| A = .125" [3.18mm]                                              |          |          |          |           |          |           |          |               |                                                |
| <b>NUMBER OF CONTACT POSITIONS</b>                              |          |          |          |           |          |           |          |               |                                                |
| See Chart Below                                                 |          |          |          |           |          |           |          |               |                                                |
| <b>READOUT (Opposite Page)</b>                                  |          |          |          |           |          |           |          |               |                                                |
| D = Dual                                                        |          |          |          |           |          |           |          |               |                                                |
| H = Half Loaded                                                 |          |          |          |           |          |           |          |               |                                                |
| <b>MOUNTING STYLE (Opposite Page)</b>                           |          |          |          |           |          |           |          |               |                                                |
| H = Clearance Holes                                             |          |          |          |           |          |           |          |               |                                                |
| I = Threaded Inserts                                            |          |          |          |           |          |           |          |               |                                                |
| S = Side Mounting                                               |          |          |          |           |          |           |          |               |                                                |
| N = No Mounting                                                 |          |          |          |           |          |           |          |               |                                                |
| W = Flush Mounting                                              |          |          |          |           |          |           |          |               |                                                |
| D = Flush Mounting                                              |          |          |          |           |          |           |          |               |                                                |
| X = Flush Mounting with Threaded Inserts                        |          |          |          |           |          |           |          |               |                                                |
| T = Flush Mounting with Threaded Inserts                        |          |          |          |           |          |           |          |               |                                                |
| <b>TERMINATION TYPE (Opposite Page)</b>                         |          |          |          |           |          |           |          |               |                                                |
| <b>Hairpin Bellows **</b>                                       |          |          |          |           |          |           |          |               |                                                |
| CS = .025" [0.64mm] Square Dip Solder                           |          |          |          |           |          |           |          |               |                                                |
| CM = .025" [0.64mm] Square Wire Wrap                            |          |          |          |           |          |           |          |               |                                                |
| CA, CB, CC = .025" [0.64mm] Square Right Angle                  |          |          |          |           |          |           |          |               |                                                |
| CW, CT = .015" x .025" Dip Solder                               |          |          |          |           |          |           |          |               |                                                |
| <b>Loop Bellows</b>                                             |          |          |          |           |          |           |          |               |                                                |
| RS = .025" [0.64mm] Square Dip Solder                           |          |          |          |           |          |           |          |               |                                                |
| CK, TK = .026" [0.66mm] Round Dip Solder                        |          |          |          |           |          |           |          |               |                                                |
| RM = .025" [0.64mm] Square Wire Wrap                            |          |          |          |           |          |           |          |               |                                                |
| TA, TB, TM = .025" [0.64mm] Square Right Angle                  |          |          |          |           |          |           |          |               |                                                |
| <b>**Available with B or C Plating and Phosphor Bronze Only</b> |          |          |          |           |          |           |          |               |                                                |

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.015 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.38 |
| 06/12                  | 0.625  | 0.875  | 1.035  | 1.295  | 1.555  | 0.875  | 15.88         | 22.23  | 26.29  | 32.89  | 39.50  | 22.23  |
| 10/20                  | 1.125  | 1.375  | 1.535  | 1.795  | 2.055  | 1.375  | 28.58         | 34.93  | 38.99  | 45.59  | 52.20  | 34.93  |
| 14/28                  | 1.625  | 1.875  | 2.035  | 2.295  | 2.555  | 1.875  | 41.28         | 47.63  | 51.69  | 58.29  | 64.90  | 47.63  |
| 15/30                  | 1.750  | 2.000  | 2.160  | 2.420  | 2.680  | 2.000  | 44.45         | 50.80  | 54.86  | 61.47  | 68.07  | 50.80  |
| 18/36                  | 2.125  | 2.375  | 2.535  | 2.795  | 3.055  | 2.375  | 53.98         | 60.33  | 64.39  | 70.99  | 77.60  | 60.33  |
| 22/44                  | 2.625  | 2.875  | 3.035  | 3.295  | 3.555  | 2.875  | 66.68         | 73.03  | 77.09  | 83.69  | 90.30  | 73.03  |
| 24/48                  | 2.875  | 3.125  | 3.285  | 3.545  | 3.805  | 3.125  | 73.03         | 79.38  | 83.44  | 90.04  | 96.65  | 79.38  |
| 25/50*                 | 3.000  | 3.250  | 3.410  | 3.670  | 3.930  | 3.250  | 76.20         | 82.55  | 86.61  | 93.22  | 99.82  | 82.55  |
| 28/56                  | 3.375  | 3.625  | 3.785  | 4.045  | 4.305  | 3.625  | 85.73         | 92.08  | 96.14  | 102.74 | 109.35 | 92.08  |
| 30/60                  | 3.625  | 3.875  | 4.035  | 4.295  | 4.555  | 3.875  | 92.08         | 98.43  | 102.49 | 109.09 | 115.70 | 98.43  |
| 31/62                  | 3.750  | 4.000  | 4.160  | 4.420  | 4.680  | 4.000  | 95.25         | 101.60 | 105.66 | 112.27 | 118.87 | 101.60 |
| 32/64                  | 3.875  | 4.125  | 4.285  | 4.545  | 4.805  | 4.125  | 98.43         | 104.78 | 108.84 | 115.44 | 122.05 | 104.78 |
| 35/70                  | 4.250  | 4.500  | 4.660  | 4.920  | 5.180  | 4.500  | 107.95        | 114.30 | 118.36 | 124.97 | 131.57 | 114.30 |
| 36/72                  | 4.375  | 4.625  | 4.785  | 5.045  | 5.305  | 4.625  | 111.13        | 117.48 | 121.54 | 128.14 | 134.75 | 117.48 |
| 40/80                  | 4.875  | 5.125  | 5.285  | 5.545  | 5.805  | 5.125  | 123.83        | 130.18 | 134.24 | 140.84 | 147.45 | 130.18 |
| 43/86                  | 5.250  | 5.500  | 5.660  | 5.920  | 6.180  | 5.500  | 133.35        | 139.70 | 143.76 | 150.37 | 156.97 | 139.70 |
| 44/88                  | 5.375  | 5.625  | 5.785  | 6.045  | 6.305  | 5.625  | 136.53        | 142.88 | 146.94 | 153.54 | 160.15 | 142.88 |
| 49/98                  | 6.000  | 6.250  | 6.410  | 6.670  | 6.930  | 6.250  | 152.40        | 158.75 | 162.81 | 169.42 | 176.02 | 158.75 |
| 50/100                 | 6.125  | 6.375  | 6.535  | 6.795  | 7.055  | 6.375  | 155.58        | 161.93 | 165.99 | 172.59 | 179.20 | 161.93 |

\* Consult factory for availability.



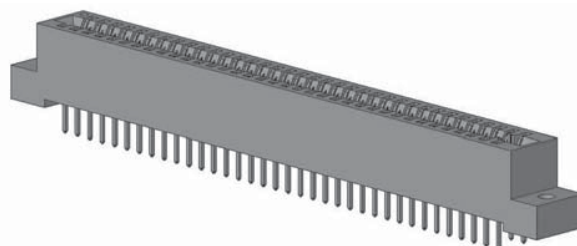
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

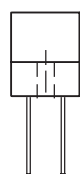
**.125" [3.18mm] Contact Centers, .610" Insulator Height,  
Dip Solder/Wire Wrap/Right Angle for .093" [2.36] or .125" [3.18] Mating PCB**

### SPECIFICATIONS

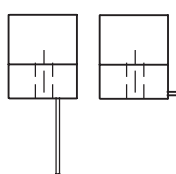
- Accommodates .093"  $\pm$  .008" [2.36  $\pm$  .20] or .125"  $\pm$  .008" [3.18  $\pm$  .20] mating PCB
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current



### READOUT

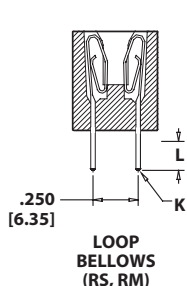


DUAL (D)

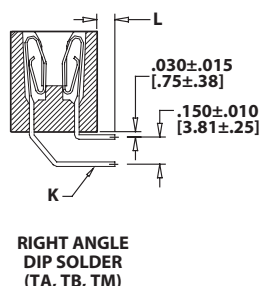


HALF LOADED (H)

### TERMINATION TYPE



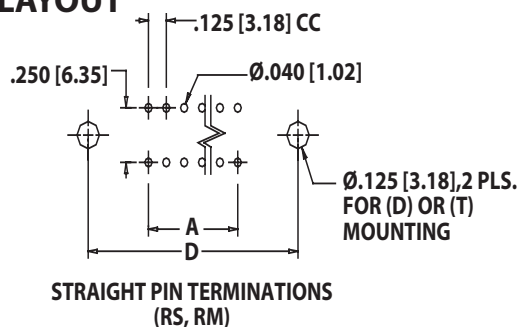
LOOP  
BELLOWS  
(RS, RM)



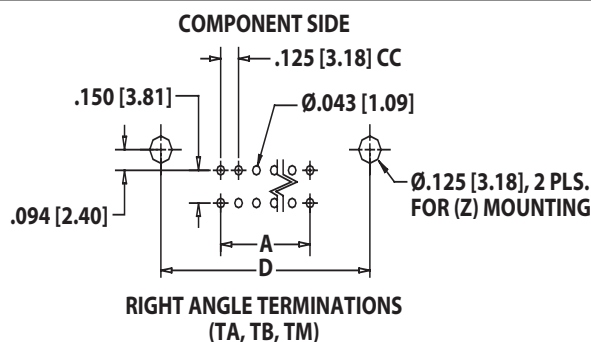
RIGHT ANGLE  
DIP SOLDER  
(TA, TB, TM)

| TERMINATION TYPE | POST CROSS SECTION (K) | POST LENGTH L $\pm$ .025[0.64] | FITS MIN. HOLE SIZE |
|------------------|------------------------|--------------------------------|---------------------|
| RS DIP SOLDER    | .025[0.64] SQUARE      | .190 [4.83]                    | .040 [1.02]         |
| RM WIRE WRAP     | .025[0.64] SQUARE      | .560 [14.20]                   | .040 [1.02]         |
| TA RIGHT ANGLE   | .025[0.64] SQUARE      | .100 [2.54]                    | .043 [1.09]         |
| TB RIGHT ANGLE   | .025[0.64] SQUARE      | .180 [4.57]                    | .043 [1.09]         |
| TM RIGHT ANGLE   | .025[0.64] SQUARE      | .250 [6.35]                    | .043 [1.09]         |

### PCB LAYOUT

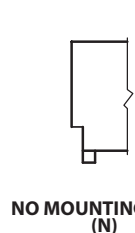


STRAIGHT PIN TERMINATIONS  
(RS, RM)

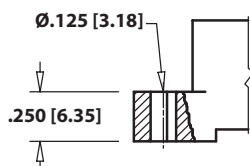


RIGHT ANGLE TERMINATIONS  
(TA, TB, TM)

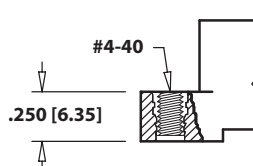
### MOUNTING STYLE



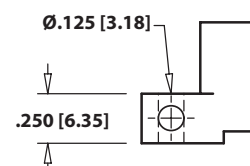
NO MOUNTING EARS  
(N)



FLUSH MOUNTING  
(D)



FLUSH MOUNTING WITH  
THREADED INSERT  
(T)



FLUSH MOUNTING WITH SIDE HOLES  
(Z)

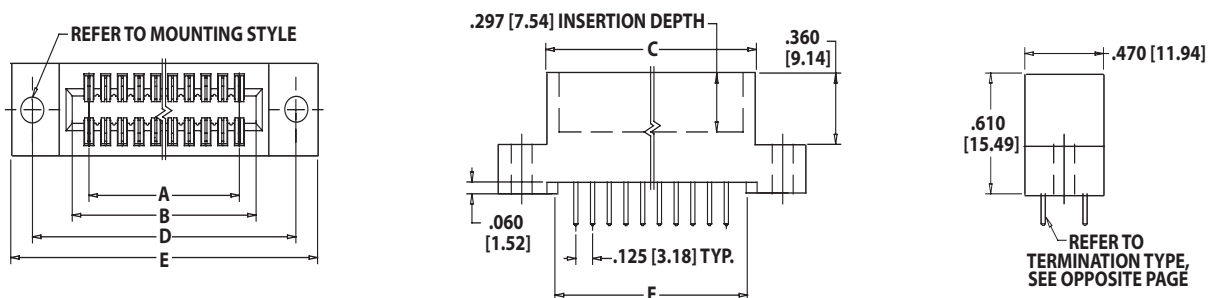
**.125" [3.18mm] Contact Centers, .610" Insulator Height,  
Dip Solder/Wire Wrap/Right Angle for .093" [2.36] or .125" [3.18] Mating PCB**

**PART NUMBER CODING**

|                                                                |                                                |
|----------------------------------------------------------------|------------------------------------------------|
| <b>MATERIALS (Insulator/Contact)</b>                           | <b>MODIFICATION CODE</b> (Consult Factory)     |
| E = PBT/Phosphor Bronze(Standard)                              | -S273 = FOR .093" ± .008" [2.36 ± .20]         |
| R = PPS/Phosphor Bronze                                        | THICK MATING PCB                               |
| G = PA9T/Phosphor Bronze                                       | -S664 = FOR .125" ± .008" [3.18 ± .20]         |
| (Consult Factory for Other Materials)                          | THICK MATING PCB                               |
| <b>CONTACT FINISH - RoHS Compliant</b>                         | <b>MOUNTING STYLE (Opposite Page)</b>          |
| All platings are Lead Free and have .000050" Nickel underplate | N = No Mounting                                |
| <b>Contact Surface</b>                                         | D = Flush Mounting                             |
| <b>Termination</b>                                             | T = Flush Mounting With Threaded Inserts       |
| B = .000010" Gold .000100" Pure Tin, Matte                     | Z = Flush Mounting With Side Holes             |
| C = .000030" Gold .000100" Pure Tin, Matte                     | <b>TERMINATION TYPE (Opposite Page)</b>        |
| G = .000010" Gold .000005" Gold                                | RS = .025" [0.64mm] Square Dip Solder          |
| Y = .000030" Gold .000005" Gold                                | RM = .025" [0.64mm] Square Wire Wrap           |
| <b>Contact Surface</b>                                         | TA, TB, TM = .025" [0.64mm] Square Right Angle |
| <b>Overall Plating</b>                                         | <b>READOUT (OPPOSITE PAGE)</b>                 |
| S = .000010" Gold .000010" Gold                                | D = Dual                                       |
| M = .000030" Gold .000010" Gold                                | H = Half Loaded                                |
| E = .000100" Pure Tin, Matte .000100" Pure Tin, Matte          | <b>NUMBER OF CONTACT POSITIONS</b>             |
| <b>CONTACT CENTERS</b>                                         | See Chart Below                                |
| A = .125" [3.18mm]                                             |                                                |

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.015 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.38 |
| 06/12*                 | 0.625  | 0.875  | 1.035  | 1.295  | 1.555  | 0.875  | 15.88         | 22.23  | 26.29  | 32.89  | 39.50  | 22.23  |
| 10/20*                 | 1.125  | 1.375  | 1.535  | 1.795  | 2.055  | 1.375  | 28.58         | 34.93  | 38.99  | 45.59  | 52.20  | 34.93  |
| 14/28*                 | 1.625  | 1.875  | 2.035  | 2.295  | 2.555  | 1.875  | 41.28         | 47.63  | 51.69  | 58.29  | 64.90  | 47.63  |
| 15/30*                 | 1.750  | 2.000  | 2.160  | 2.420  | 2.680  | 2.000  | 44.45         | 50.80  | 54.86  | 61.47  | 68.07  | 50.80  |
| 18/36*                 | 2.125  | 2.375  | 2.535  | 2.795  | 3.055  | 2.375  | 53.98         | 60.33  | 64.39  | 70.99  | 77.60  | 60.33  |
| 22/44*                 | 2.625  | 2.875  | 3.035  | 3.295  | 3.555  | 2.875  | 66.68         | 73.03  | 77.09  | 83.69  | 90.30  | 73.03  |
| 24/48*                 | 2.875  | 3.125  | 3.285  | 3.545  | 3.805  | 3.125  | 73.03         | 79.38  | 83.44  | 90.04  | 96.65  | 79.38  |
| 25/50*                 | 3.000  | 3.250  | 3.410  | 3.670  | 3.930  | 3.250  | 76.20         | 82.55  | 86.61  | 93.22  | 99.82  | 82.55  |
| 28/56*                 | 3.375  | 3.625  | 3.785  | 4.045  | 4.305  | 3.625  | 85.73         | 92.08  | 96.14  | 102.74 | 109.35 | 92.08  |
| 30/60                  | 3.625  | 3.875  | 4.035  | 4.295  | 4.555  | 3.875  | 92.08         | 98.43  | 102.49 | 109.09 | 115.70 | 98.43  |
| 31/62*                 | 3.750  | 4.000  | 4.160  | 4.420  | 4.680  | 4.000  | 95.25         | 101.60 | 105.66 | 112.27 | 118.87 | 101.60 |
| 32/64*                 | 3.875  | 4.125  | 4.285  | 4.545  | 4.805  | 4.125  | 98.43         | 104.78 | 108.84 | 115.44 | 122.05 | 104.78 |
| 35/70*                 | 4.250  | 4.500  | 4.660  | 4.920  | 5.180  | 4.500  | 107.95        | 114.30 | 118.36 | 124.97 | 131.57 | 114.30 |
| 36/72                  | 4.375  | 4.625  | 4.785  | 5.045  | 5.305  | 4.625  | 111.13        | 117.48 | 121.54 | 128.14 | 134.75 | 117.48 |
| 40/80*                 | 4.875  | 5.125  | 5.285  | 5.545  | 5.805  | 5.125  | 123.83        | 130.18 | 134.24 | 140.84 | 147.45 | 130.18 |
| 43/86*                 | 5.250  | 5.500  | 5.660  | 5.920  | 6.180  | 5.500  | 133.35        | 139.70 | 143.76 | 150.37 | 156.97 | 139.70 |
| 44/88*                 | 5.375  | 5.625  | 5.785  | 6.045  | 6.305  | 5.625  | 136.53        | 142.88 | 146.94 | 153.54 | 160.15 | 142.88 |
| 49/98*                 | 6.000  | 6.250  | 6.410  | 6.670  | 6.930  | 6.250  | 152.40        | 158.75 | 162.81 | 169.42 | 176.02 | 158.75 |
| 50/100                 | 6.125  | 6.375  | 6.535  | 6.795  | 7.055  | 6.375  | 155.58        | 161.93 | 165.99 | 172.59 | 179.20 | 161.93 |

\* Consult Factory For Availability.



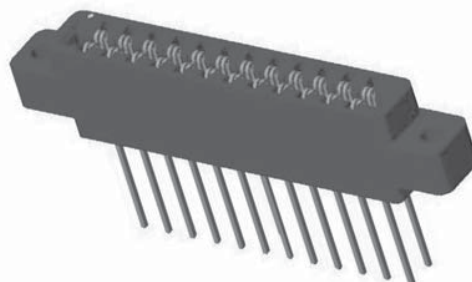
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

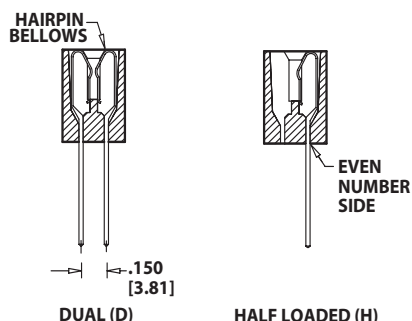
**.150" [3.81mm] Contact Centers, .550" Insulator Height**  
**Dip Solder/Wire Wrap**

### SPECIFICATIONS

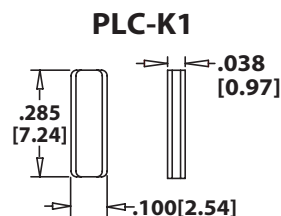
- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm max. at rated current



#### READOUT

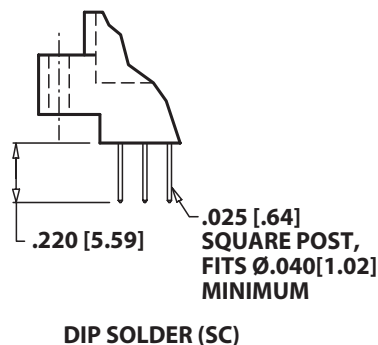
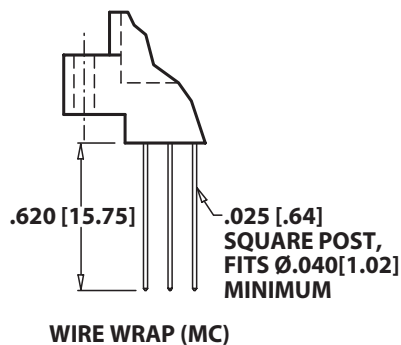


#### POLARIZING KEY

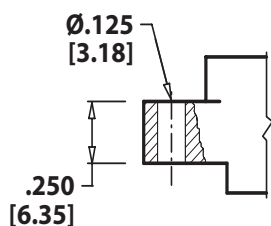


**KEY IN BETWEEN CONTACTS**  
**(ORDER SEPARATELY)**

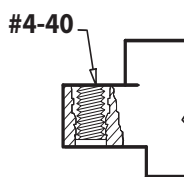
#### TERMINATION TYPE



#### MOUNTING STYLE



**CLEARANCE**  
**HOLE (H)**



**THREADED**  
**INSERT (I)**



**NO MOUNTING**  
**EARS (N)**

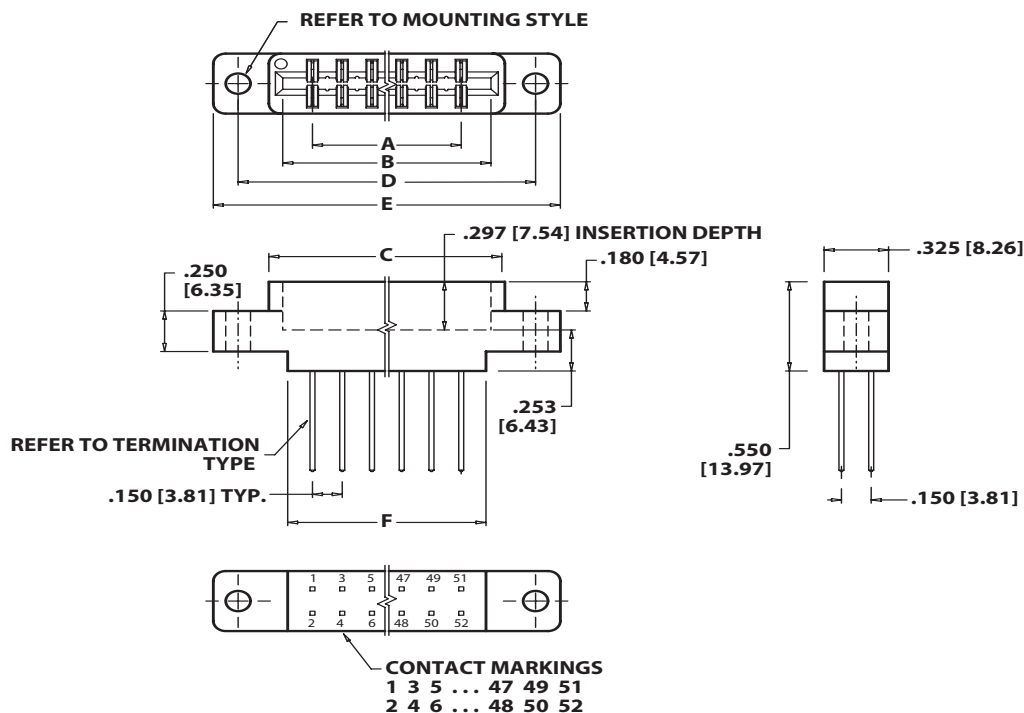


## PART NUMBER CODING

|                                                                                                                                    |                               |                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>MATERIALS (Insulator/Contact)</b>                                                                                               | <b>E B J 26 D MC H - Sxxx</b> | <b>MODIFICATION CODE</b> (Consult Factory)<br>OMIT FOR STANDARD                                                        |
| E = PBT/Phosphor Bronze (Standard)<br>R = PPS/Phosphor Bronze<br>G = PA9T/Phosphor Bronze<br>(Consult Factory for Other Materials) |                               |                                                                                                                        |
| <b>CONTACT FINISH - RoHS Compliant</b>                                                                                             |                               | <b>MOUNTING STYLE (Opposite Page)</b><br>H = Clearance Holes<br>I = Threaded Inserts<br>N = No Mounting                |
| All platings are Lead Free and have .000050" Nickel underplate                                                                     |                               | <b>TERMINATION TYPE (Opposite Page)</b><br>MC = .025" [.64mm] Square Wire Wrap<br>SC = .025" [.64mm] Square Dip Solder |
| <b>Contact Surface</b>                                                                                                             |                               | <b>READOUT (Opposite Page)</b><br>D = Dual<br>H = Half Loaded                                                          |
| <b>Termination</b>                                                                                                                 |                               |                                                                                                                        |
| B = .000010" Gold<br>C = .000030" Gold                                                                                             |                               |                                                                                                                        |
| <b>CONTACT CENTERS</b><br>J = .150" [3.81mm]                                                                                       |                               |                                                                                                                        |
| <b>NUMBER OF CONTACT POSITIONS</b><br>See Chart Below                                                                              |                               |                                                                                                                        |

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.015 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.38 |
| 12/24                  | 1.650  | 1.950  | 2.090  | 2.400  | 2.650  | 2.000  | 41.91         | 49.53  | 53.09  | 60.96  | 67.31  | 50.80  |
| 18/36*                 | 2.550  | 2.850  | 2.990  | 3.300  | 3.550  | 2.800  | 64.77         | 72.39  | 75.95  | 83.82  | 90.17  | 71.12  |
| 22/44*                 | 3.150  | 3.450  | 3.590  | 3.900  | 4.150  | 3.400  | 80.01         | 87.63  | 91.19  | 99.06  | 105.41 | 86.36  |
| 26/52                  | 3.750  | 4.050  | 4.190  | 4.500  | 4.750  | 4.000  | 95.25         | 102.87 | 106.43 | 114.30 | 120.65 | 101.60 |
| 28/56*                 | 4.050  | 4.350  | 4.490  | 4.800  | 5.050  | 4.300  | 102.87        | 110.49 | 114.05 | 121.92 | 128.27 | 109.22 |

\* Consult Factory For Availability.



## Sullins Edgecards

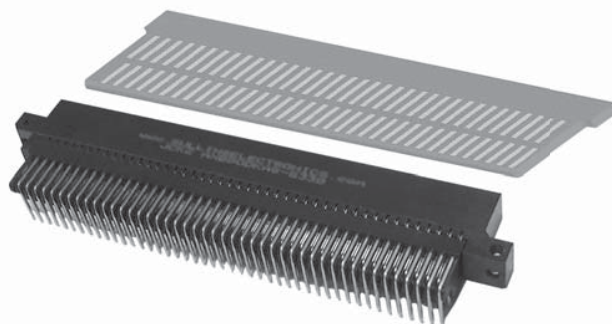
MICROPLASTICS  
**SULLINS**

**Bi-Level, .078" [1.98mm] / .156" [3.96] Contact Centers**  
**High Density, Right Angle**

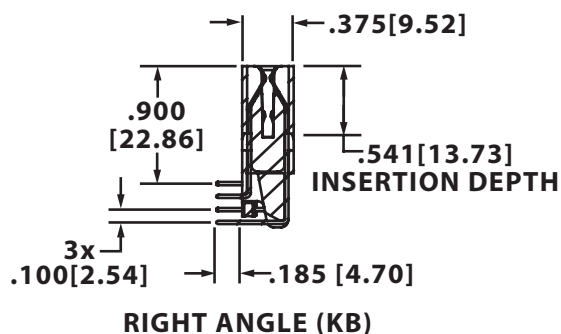
U.S. Patent No. US 6,790,054 B1

### SPECIFICATIONS

- .078" Contact Center Spacing can replace .156" CC parts to double the number of contacts within the same area
- Backwards Compatible with Daughter Card Side
- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board
- Contact Material: Beryllium Copper or Phosphor Bronze
- Body Material: PPS/PA9T
- UL Flammability: 94V-0
- 3 amp current rating per contact
- 75 grams minimum contact normal force
- Voltage Rating: 125 VDC Minimum at sea level
- Consult Factory for PC board layouts/technical drawings



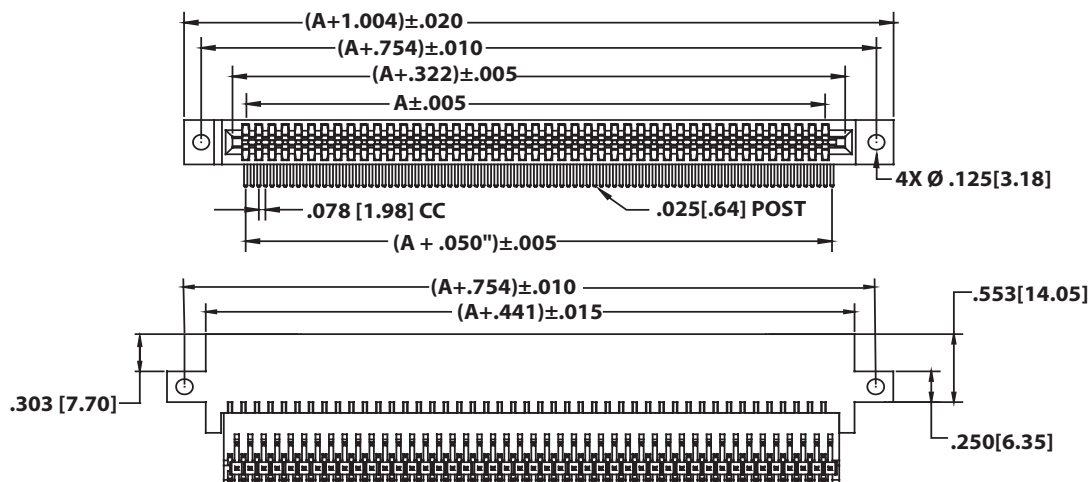
### TERMINATION TYPE



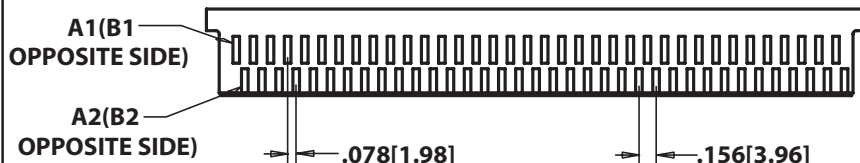
**HIGH DENSITY**  
**HIGH TEMPERATURE**  
**HIGH CYCLE**  
**HIGH RELIABILITY**

### DIMENSIONS

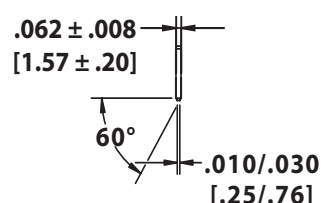
Dimensions in [ ] are in millimeters, all others are in inches.



### DAUGHTER CARD LAYOUT



### DAUGHTER CARD SIDE VIEW





**PART NUMBER CODING**

**MATERIALS (INSULATOR/CONTACT)**

G = PA9T/Phosphor Bronze  
Operating Temperature: 125°C  
R = PPS and PA9T/Phosphor Bronze  
Operating Temperature: 125°C  
J = PA9T/Beryllium Copper  
Operating Temperature: 150°C  
A = PPS and PA9T/Beryllium Copper  
Operating Temperature: 150°C

**CONTACT FINISH - RoHS Compliant**

**All platings are Lead Free and have .000050" Nickel underplate**  
**Contact Surface Termination**

B = .000010" Gold .000100" Pure Tin, Matte  
C = .000030" Gold .000100" Pure Tin, Matte  
Y = .000030" Gold .000005" Gold

**CONTACT CENTERS**

K = .078" [1.98mm]

A C K 10 D KB S - Sxxx

OMIT FOR STANDARD

S - S1075 = Staggered Ears with  
Side Mounting Holes

A - S1076 = Staggered Ears with  
#4-40 Threaded Inserts

| POSITIONS | Dimension A<br>(See Opposite Page) |        |        |
|-----------|------------------------------------|--------|--------|
|           | No. of<br>Contacts                 | Inches | [MM]   |
| 06        | 12                                 | 0.780  | 19.81  |
| 08        | 16                                 | 1.092  | 27.74  |
| 10        | 20                                 | 1.404  | 35.66  |
| 12        | 24                                 | 1.716  | 43.59  |
| 14        | 28                                 | 2.028  | 51.51  |
| 16        | 32                                 | 2.340  | 59.44  |
| 18        | 36                                 | 2.652  | 67.36  |
| 20        | 40                                 | 2.964  | 75.29  |
| 22        | 44                                 | 3.276  | 83.21  |
| 24        | 48                                 | 3.588  | 91.14  |
| 26        | 52                                 | 3.900  | 99.06  |
| 28        | 56                                 | 4.212  | 106.98 |
| 30        | 60                                 | 4.524  | 114.91 |
| 32        | 64                                 | 4.836  | 122.83 |
| 34        | 68                                 | 5.148  | 130.76 |
| 36        | 72                                 | 5.460  | 138.68 |
| 38        | 76                                 | 5.772  | 146.61 |
| 40        | 80                                 | 6.084  | 154.53 |
| 42        | 84                                 | 6.396  | 162.46 |
| 44        | 88                                 | 6.708  | 170.38 |
| 46        | 92                                 | 7.020  | 178.31 |
| 48        | 96                                 | 7.332  | 186.23 |
| 50        | 100                                | 7.644  | 194.16 |
| 52        | 104                                | 7.956  | 202.08 |
| 54        | 108                                | 8.268  | 210.01 |
| 56        | 112                                | 8.580  | 217.93 |
| 58        | 116                                | 8.892  | 225.86 |
| 60        | 120                                | 9.204  | 233.78 |
| 62        | 124                                | 9.516  | 241.71 |
| 64        | 128                                | 9.828  | 249.63 |
| 66        | 132                                | 10.140 | 257.56 |
| 68        | 136                                | 10.452 | 265.48 |
| 70        | 140                                | 10.764 | 273.41 |
| 72        | 144                                | 11.076 | 281.33 |

| MOUNTING STYLE |                                                      |  |
|----------------|------------------------------------------------------|--|
| H              | MOUNTING HOLES                                       |  |
| S              | SIDE MOUNTING HOLES                                  |  |
| I              | #4-40 THREADED INSERTS                               |  |
| A              | #4-40 THREADED INSERTS IN SIDE HOLES                 |  |
| Z              | FLUSH EARS WITH SIDE MOUNTING HOLES                  |  |
| D              | FLUSH EARS WITH Ø.125 HOLES                          |  |
| T              | FLUSH EARS WITH #4-40 THREADED INSERTS               |  |
| V              | FLUSH EARS WITH #4-40 THREADED INSERTS IN SIDE HOLES |  |
| N              | NO MOUNTING EARS                                     |  |

| MODIFICATION CODE                                           |
|-------------------------------------------------------------|
| (CONSULT FACTORY)                                           |
|                                                             |
| <b>STAGGERED EARS WITH SIDE MOUNTING HOLES (S-S1075)</b>    |
|                                                             |
| <b>STAGGERED EARS WITH #4-40 THREADED INSERTS (A-S1076)</b> |



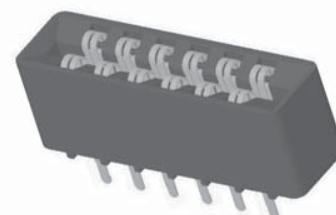
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

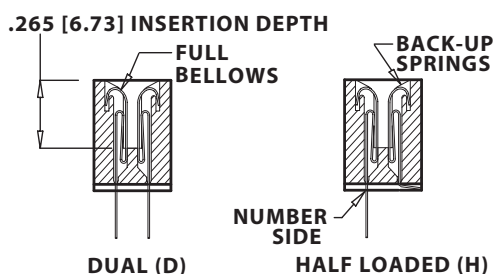
### .156" [3.96mm] Contact Centers, .431" Insulator Height Dip Solder/Eyelet/Right Angle

#### SPECIFICATIONS

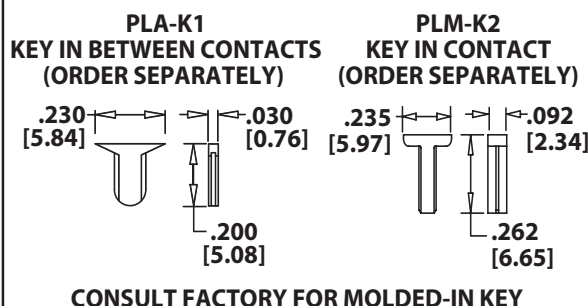
- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board
- Molded-in key available
- 3 amp current rating per contact  
(for 5 amp application, consult factory)
- 30 milli ohm maximum at rated current



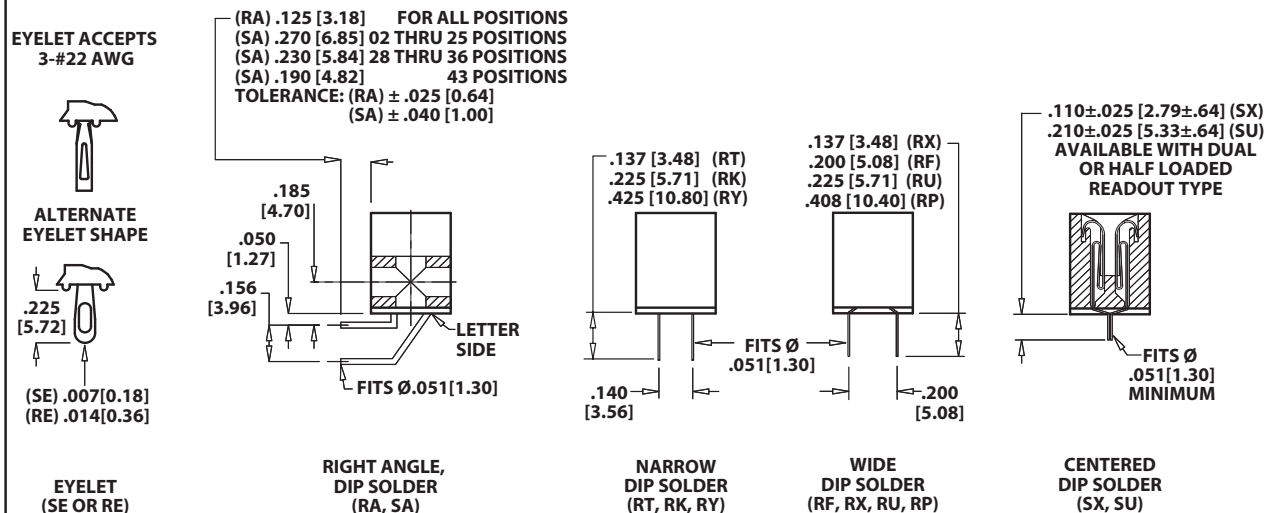
#### READOUT



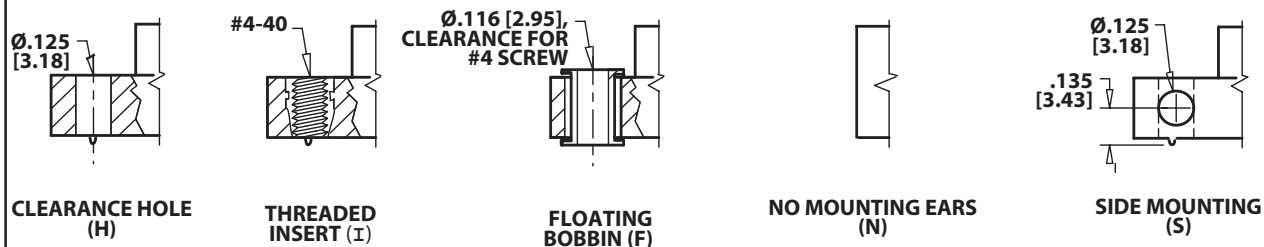
#### POLARIZING KEY



#### TERMINATION TYPE



#### MOUNTING STYLE



**.156" [3.96mm] Contact Centers, .431" Insulator Height  
Dip Solder/Eyelet/Right Angle**

**PART NUMBER CODING**

**MATERIALS (Insulator/Contact)**

E = PBT/Phosphor Bronze (Standard)  
R = PPS/Phosphor Bronze  
G = PA9T/Phosphor bronze  
H = PBT/Beryllium Copper  
A = PPS/Beryllium Copper  
J = PA9T/Beryllium Copper  
\*F = PPS/Spinodal (Overall Gold Plating Only)  
Consult Factory for Special Soldering Guidelines  
\*C = PPS/Beryllium Nickel (Overall Gold Plating Only)  
\*W = PEEK/Beryllium Nickel (Overall Gold Plating Only)  
\*Consult Factory for availability.

**CONTACT FINISH - RoHS Compliant**

All platings are Lead Free and have .000050" Nickel underplate

| Contact Surface              | Termination              |
|------------------------------|--------------------------|
| B = .000010" Gold            | .000100" Pure Tin, Matte |
| C = .000030" Gold            | .000100" Pure Tin, Matte |
| G = .000010" Gold            | .000005" Gold            |
| Y = .000030" Gold            | .000005" Gold            |
| Contact Surface              | Overall Plating          |
| S = .000010" Gold            | .000010" Gold            |
| M = .000030" Gold            | .000010" Gold            |
| E = .000100" Pure Tin, Matte | .000100" Pure Tin, Matte |

**CONTACT CENTERS**

M = .156" [3.96mm]

**NUMBER OF CONTACT POSITIONS**

See Chart Below

**E B M 43 D RK H - Sxxx**

**MODIFICATION CODE (Consult Factory)**

OMIT FOR STANDARD

-S13 = Card Extender Accepts .062" [1.57] PCB  
(RT, RK, RY, SE Terminations Only)

**MOUNTING STYLE (Opposite Page)**

H = .125" [3.18mm] Clearance Holes  
N = No Mounting  
S = Side Mounting  
I = Threaded Insert  
F = Floating Bobbin

**TERMINATION TYPE (Opposite Page)**

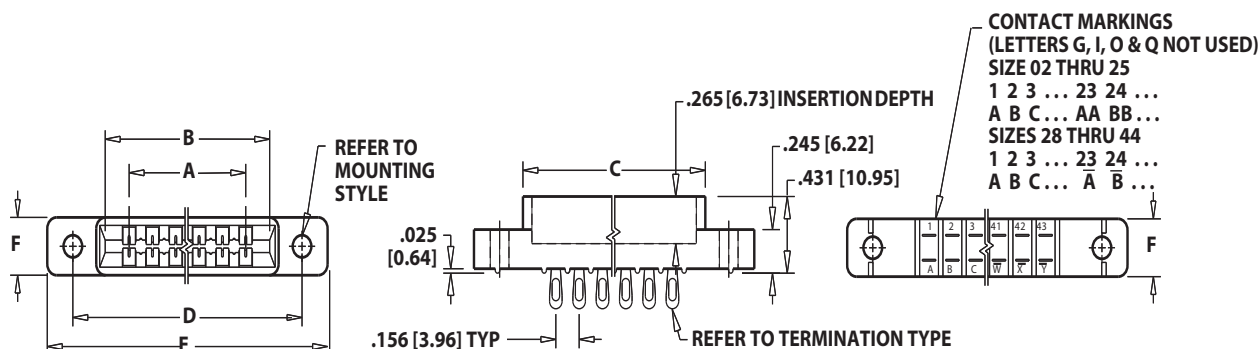
RA = .125" Right Angle Dip Solder  
SA = Long Right Angle Dip Solder  
RT = .140" x .137" Dip Solder  
RK = .140" x .225" Dip Solder  
RY = .140" x .425" Dip Solder  
RX = .200" x .137" Dip Solder  
RF = .200" x .200" Dip Solder  
RU = .200" x .225" Dip Solder  
RP = .200" x .408" Dip Solder  
SX = .110" [2.79mm] Centered Dip Solder  
SU = .210" [5.33mm] Centered Dip Solder  
SE = .007" [0.18mm] Thick Eyelet  
RE = .014" [0.36mm] Thick Eyelet

**READOUT (Opposite Page)**

D = Dual  
D = Dual Row/ Crimp to Center for  
Single Readout (SX, SU Termination Only)  
H = Half Loaded

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential: Consult Factory.

| POSITIONS/<br>CONTACTS | INCHES |        |        |              |       |        | [MILLIMETERS] |        |        |              |        |        |
|------------------------|--------|--------|--------|--------------|-------|--------|---------------|--------|--------|--------------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010       | E MAX | F±.005 | A±0.20        | B±0.20 | C±0.38 | D±0.25       | E MAX  | F±0.13 |
| 02/04                  | 0.156  | 0.476  | 0.596  | 'N' MOUNTING |       |        | 3.96          | 12.09  | 15.14  | 'N' MOUNTING |        |        |
| 03/06                  | 0.312  | 0.632  | 0.752  | 'N' MOUNTING |       |        | 7.92          | 16.05  | 19.10  | 'N' MOUNTING |        |        |
| 06/12                  | 0.780  | 1.100  | 1.220  | 1.533        | 1.902 |        | 19.81         | 27.94  | 30.99  | 38.94        | 48.31  |        |
| 08/16                  | 1.092  | 1.412  | 1.532  | 1.845        | 2.214 |        | 27.74         | 35.86  | 38.91  | 46.86        | 56.24  |        |
| 10/20                  | 1.404  | 1.724  | 1.844  | 2.157        | 2.526 |        | 35.66         | 43.79  | 46.84  | 54.79        | 64.16  |        |
| 11/22                  | 1.560  | 1.880  | 2.000  | 2.313        | 2.682 |        | 39.62         | 47.75  | 50.80  | 58.75        | 68.12  |        |
| 12/24                  | 1.716  | 2.036  | 2.156  | 2.469        | 2.838 |        | 43.59         | 51.71  | 54.76  | 62.71        | 72.09  |        |
| 15/30                  | 2.184  | 2.504  | 2.624  | 2.937        | 3.306 |        | 55.47         | 63.60  | 66.65  | 74.60        | 83.97  |        |
| 18/36                  | 2.652  | 2.972  | 3.092  | 3.405        | 3.774 |        | 67.36         | 75.49  | 78.54  | 86.49        | 95.86  |        |
| 22/44                  | 3.276  | 3.596  | 3.716  | 4.029        | 4.398 |        | 83.21         | 91.34  | 94.39  | 102.34       | 111.71 |        |
| 24/48                  | 3.588  | 3.908  | 4.028  | 4.341        | 4.710 |        | 91.14         | 99.26  | 102.31 | 110.26       | 119.63 |        |
| 25/50                  | 3.744  | 4.064  | 4.184  | 4.497        | 4.866 |        | 95.10         | 103.23 | 106.27 | 114.22       | 123.60 |        |
| 28/56                  | 4.212  | 4.532  | 4.652  | 4.965        | 5.334 |        | 106.98        | 115.11 | 118.16 | 126.11       | 135.48 |        |
| 36/72                  | 5.460  | 5.780  | 5.900  | 6.213        | 6.582 |        | 138.68        | 146.81 | 149.86 | 157.81       | 167.18 |        |
| 43/86                  | 6.552  | 6.872  | 6.992  | 7.305        | 7.674 |        | 166.42        | 174.55 | 177.60 | 185.55       | 194.92 |        |
| 44/88                  | 6.708  | 7.028  | 7.148  | 7.461        | 7.830 |        | 170.38        | 178.51 | 181.56 | 189.51       | 198.88 |        |



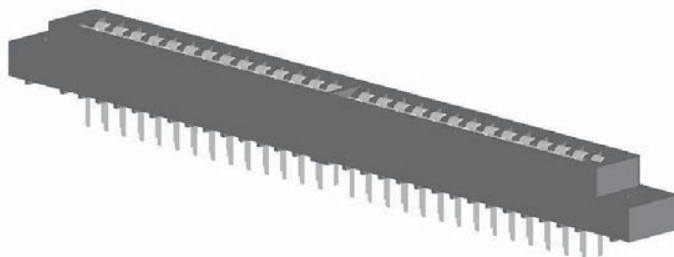
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

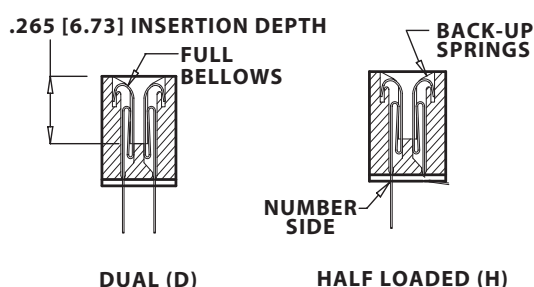
**.156" [3.96mm] Contact Centers, .431" Insulator Height**  
**Special Body Configuration Dip Solder/Eyelet/Right Angle**

### SPECIFICATIONS

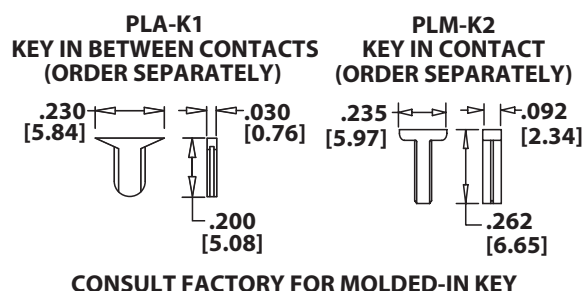
- Accommodates .062"  $\pm$  .008"  
[1.57  $\pm$  .20] PC board
- Molded-in key available
- 3 amp current rating per contact  
(for 5 amp application, consult factory)
- 30 milli ohm maximum at rated current



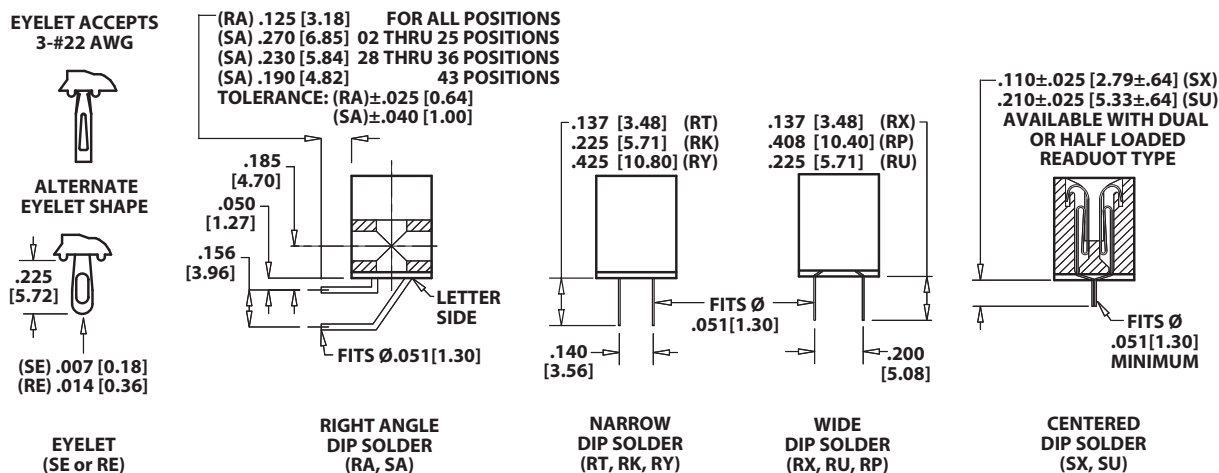
### READOUT



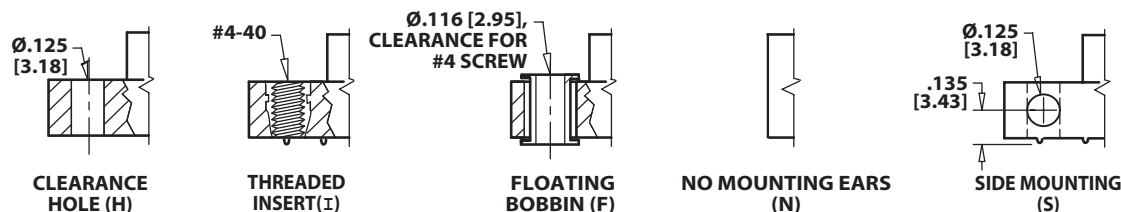
### POLARIZING KEY



### TERMINATION TYPE



### MOUNTING STYLE



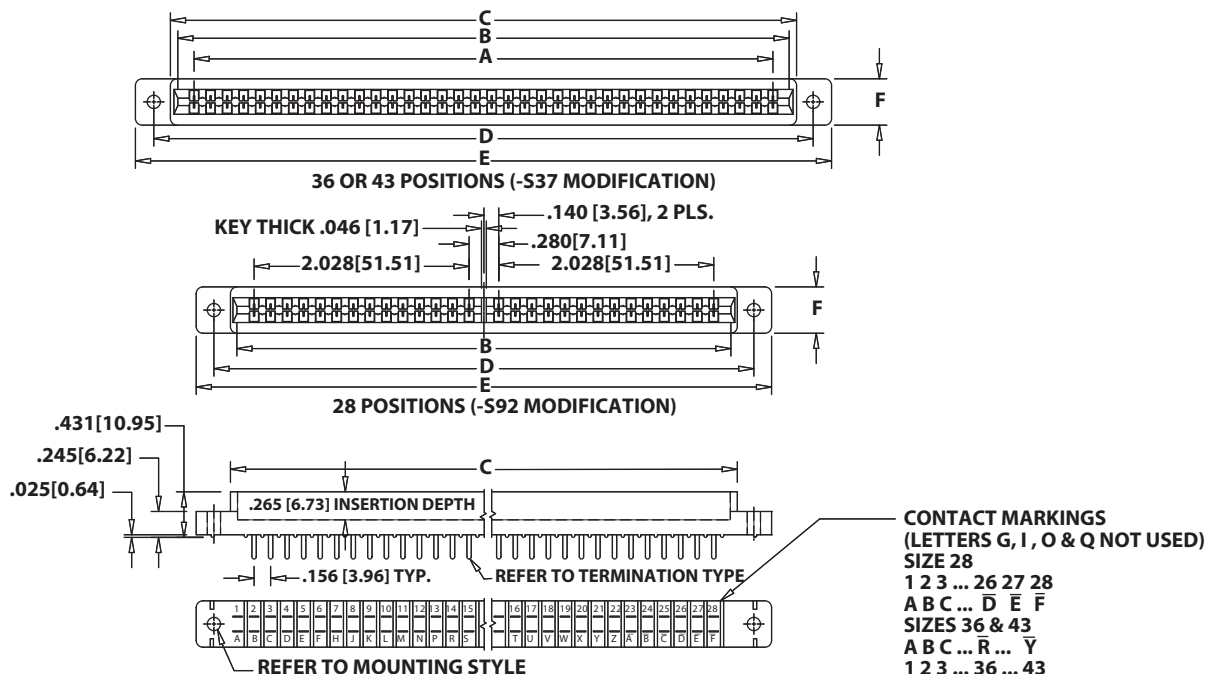
**.156" [3.96mm] Contact Centers, .431" Insulator Height**  
**Special Body Configuration Dip Solder/Eyelet/Right Angle**

**PART NUMBER CODING**

|                                                                |                              |                                                      |
|----------------------------------------------------------------|------------------------------|------------------------------------------------------|
| <b>MATERIALS (Insulator/Contact)</b>                           | <b>E B M 43 D RT H - S37</b> | <b>MODIFICATION CODE</b> (Consult Factory)           |
| E = PBT/Phosphor Bronze (Standard)                             |                              | -S37 = Reverse Contact ID & Shorter Card Slot Length |
| R = PPS/Phosphor Bronze                                        |                              | -S92 = Center Barrier Molded in Card Slot            |
| G = PA9T/Phosphor bronze                                       |                              |                                                      |
| H = PBT/Beryllium Copper                                       |                              | <b>MOUNTING STYLE (Opposite Page)</b>                |
| A = PPS/Beryllium Copper                                       |                              | H = .125" [3.18mm] Clearance Holes                   |
| J = PA9T/Beryllium Copper                                      |                              | N = No Mounting                                      |
| *F = PPS/Spinodal (Overall Gold Plating Only)                  |                              | S = Side Mounting                                    |
| Consult Factory for Special Soldering Guidelines               |                              | I = Threaded Insert                                  |
| *C = PPS/Beryllium Nickel (Overall Gold Plating Only)          |                              | F = Floating Bobbin                                  |
| *W = PEEK/Beryllium Nickel (Overall Gold Plating Only)         |                              |                                                      |
| *Consult Factory for availability.                             |                              | <b>TERMINATION TYPE (Opposite Page)</b>              |
| <b>CONTACT FINISH - RoHS Compliant</b>                         |                              | RA = .125" Right Angle Dip Solder                    |
| All platings are Lead Free and have .000050" Nickel underplate |                              | SA = Long Right Angle Dip Solder                     |
|                                                                |                              | RT = .140" x .137" Dip Solder                        |
|                                                                |                              | RK = .140" x .225" Dip Solder                        |
|                                                                |                              | RY = .140" x .425" Dip Solder                        |
|                                                                |                              | RX = .200" x .137" Dip Solder                        |
|                                                                |                              | RU = .200" x .225" Dip Solder                        |
|                                                                |                              | RP = .200" x .408" Dip Solder                        |
|                                                                |                              | SX = .110" [2.79mm] Centered Dip Solder              |
|                                                                |                              | SU = .210" [5.33mm] Centered Dip Solder              |
|                                                                |                              | SE = .007" [0.18mm] Thick Eyelet                     |
|                                                                |                              | RE = .014" [0.36mm] Thick Eyelet                     |
|                                                                |                              | <b>READOUT (Opposite Page)</b>                       |
|                                                                |                              | D = Dual                                             |
|                                                                |                              | D = Dual Row/ Crimp to Center for Single             |
|                                                                |                              | Readout (SX, SU Termination Only)                    |
|                                                                |                              | H = Half Loaded                                      |

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

| POSITIONS/<br>CONTACTS | INCHES |        |        |        |       |        | [MILLIMETERS] |        |        |        |        |        | CENTER<br>BARRIER |
|------------------------|--------|--------|--------|--------|-------|--------|---------------|--------|--------|--------|--------|--------|-------------------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E MAX | F±.005 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E MAX  | F±0.13 |                   |
| 28/56                  |        | 4.660  | 4.780  | 5.093  | 5.427 | 0.438  |               | 118.36 | 121.41 | 129.36 | 137.85 | 11.13  | YES               |
| 36/72                  | 5.460  | 5.766  | 5.906  | 6.219  | 6.566 | 0.438  | 138.68        | 146.46 | 150.01 | 157.96 | 166.78 | 11.13  | NO                |
| 43/86                  | 6.552  | 6.810  | 7.000  | 7.302  | 7.643 | 0.500  | 166.42        | 172.97 | 177.80 | 185.47 | 194.13 | 12.70  | NO                |



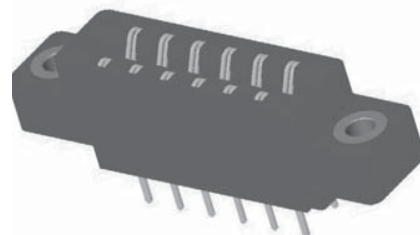
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

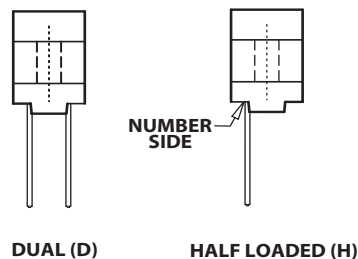
### .156" [3.96mm] Contact Centers, .610" Insulator Height Dip Solder/Wire Wrap/Right Angle/Card Extender

#### SPECIFICATIONS

- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board (See page 64/65 for .093"  $\pm$  .008" [2.36  $\pm$  .20] and .125"  $\pm$  .008" [3.18  $\pm$  .20] boards)
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

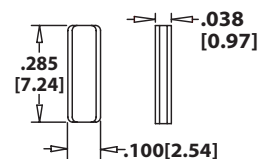


#### READOUT



#### POLARIZING KEY

##### PLC-K1

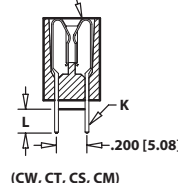


**KEY IN BETWEEN CONTACTS  
(ORDER SEPARATELY)**

#### TERMINATION TYPE

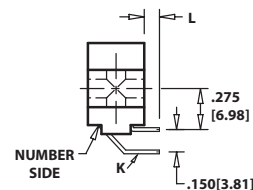
| HAIRPIN BELLOWS | TERMINATION TYPE | POST CROSS SECTION K    | POST LENGTH L<br>.025 [.64] | FITS MIN. HOLE SIZE |
|-----------------|------------------|-------------------------|-----------------------------|---------------------|
| CW              | DIP SOLDER       | .015 x .025 [.38 x .64] | .125 [3.18]                 | .035 [0.76]         |
| CT              | DIP SOLDER       | .015 x .025 [.38 x .64] | .170 [4.32]                 | .035 [0.76]         |
| CS              | DIP SOLDER       | .025 [.64] SQUARE       | .160 [4.06]                 | .040 [1.02]         |
| CM              | WIRE WRAP        | .025 [.64] SQUARE       | .560 [14.20]                | .040 [1.02]         |
| CA              | RIGHT ANGLE      | .025 [.64] SQUARE       | .100 [2.54]                 | .043 [1.09]         |
| CB              | RIGHT ANGLE      | .025 [.64] SQUARE       | .180 [4.57]                 | .043 [1.09]         |
| CC              | RIGHT ANGLE      | .025 [.64] SQUARE       | .250 [6.35]                 | .043 [1.09]         |

#### HAIRPIN BELLOWS



(CW, CT, CS, CM)

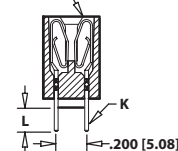
#### RIGHT ANGLE



(CA, CB, CC, TA, TB, TM, KA, KE, KU, KJ)

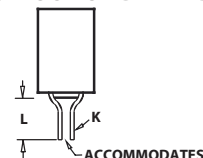
| LOOP BELLOWS | TERMINATION TYPE | POST CROSS SECTION K | POST LENGTH L<br>.025 [.64] | FITS MIN. HOLE SIZE |
|--------------|------------------|----------------------|-----------------------------|---------------------|
| TK,CK        | DIP SOLDER       | .026 [.66] ROUND     | .190 [4.83]                 | .030 [0.76]         |
| RS           | DIP SOLDER       | .025 [.64] SQUARE    | .190 [4.83]                 | .040 [1.02]         |
| RM           | WIRE WRAP        | .025 [.64] SQUARE    | .560 [14.20]                | .040 [1.02]         |
| TA           | RIGHT ANGLE      | .025 [.64] SQUARE    | .100 [2.54]                 | .043 [1.09]         |
| TB           | RIGHT ANGLE      | .025 [.64] SQUARE    | .180 [4.57]                 | .043 [1.09]         |
| TM           | RIGHT ANGLE      | .025 [.64] SQUARE    | .250 [6.35]                 | .043 [1.09]         |

#### LOOP BELLOWS



(TK, CK, RS, RM)

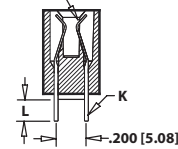
#### HAIRPIN or LOOP CARD EXTENDER



(CW, CT, CS, CM, TK, CK, RS, RM)  
Example P/N: EBM10DCSN-S288  
(Requires -S288 Modification Code)

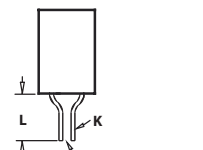
| CANTILEVER | TERMINATION TYPE | POST CROSS SECTION K | POST LENGTH L<br>.025 [.64] | FITS MIN. HOLE SIZE |
|------------|------------------|----------------------|-----------------------------|---------------------|
| KS         | DIP SOLDER       | .025 [.64] SQUARE    | .190 [4.83]                 | .040 [1.02]         |
| KD         | DIP SOLDER       | .025 [.64] SQUARE    | .160 [4.06]                 | .043 [1.09]         |
| KM         | WIRE WRAP        | .025 [.64] SQUARE    | .560 [14.20]                | .040 [1.02]         |
| *KA        | RIGHT ANGLE      | .025 [.64] SQUARE    | .100 [2.54]                 | .043 [1.09]         |
| *KE        | RIGHT ANGLE      | .025 [.64] SQUARE    | .180 [4.57]                 | .043 [1.09]         |
| *KU        | RIGHT ANGLE      | .025 [.64] SQUARE    | .250 [6.35]                 | .043 [1.09]         |
| *KJ        | RIGHT ANGLE      | .025 [.64] SQUARE    | .500 [12.70]                | .043 [1.09]         |
| *KR        | CARD EXTENDER    | .025 [.64] SQUARE    | .235 [5.97]                 | N/A                 |
| *KN        | CARD EXTENDER    | .025 [.64] SQUARE    | .605 [15.37]                | N/A                 |

#### CANTILEVER



(KS, KD, KM)

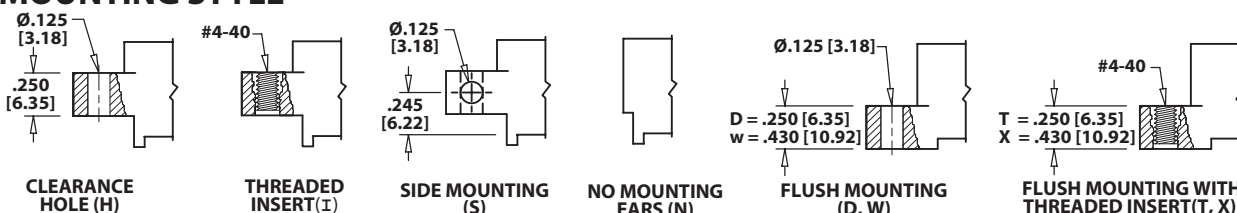
#### CANTILEVER CARD EXTENDER



(KR, KN)  
Example P/N: EBM10DKRN  
(Omit Modification Code)

\* KA, KE, KJ, KR, KN have no standoffs, unless requested.

#### MOUNTING STYLE





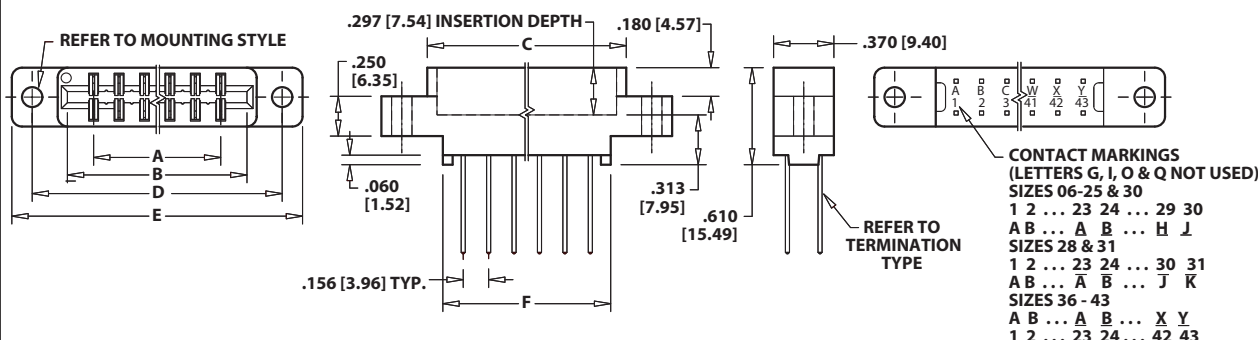
**.156" [3.96mm] Contact Centers, .610" Insulator Height**  
**Dip Solder/Wire Wrap/Right Angle/Card Extender**

**PART NUMBER CODING**

|                                                                |                               |                                                                                 |
|----------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------|
| <b>MATERIALS (Insulator/Contact)</b>                           | <b>E B M 43 D CM H - Sxxx</b> | <b>MODIFICATION CODE</b> (Consult Factory)<br>OMIT FOR STANDARD                 |
| E = PBT/Phosphor Bronze (Standard)                             |                               | -S189 = .200" [5.08mm] Row to Row on Right Angle                                |
| R = PPS/Phosphor Bronze                                        |                               | -S288* = Card Extender Accepts .062" [1.57] PCB                                 |
| G = PA9T/Phosphor Bronze                                       |                               | * Not Required on KR or KN Terminations                                         |
| A = PPS/Beryllium Copper                                       |                               |                                                                                 |
| J = PA9T/Beryllium Copper                                      |                               |                                                                                 |
| (Consult Factory For Other Materials)                          |                               |                                                                                 |
| <b>CONTACT FINISH - RoHS Compliant</b>                         |                               | <b>MOUNTING STYLE (Opposite Page)</b>                                           |
| All platings are Lead Free and have .000050" Nickel underplate |                               | H = Clearance Holes                                                             |
| <b>Contact Surface Termination</b>                             |                               | I = Threaded Inserts                                                            |
| B = .000010" Gold .000100" Pure Tin, Matte                     |                               | S = Side Mounting                                                               |
| C = .000030" Gold .000100" Pure Tin, Matte                     |                               | N = No Mounting                                                                 |
| G = .000010" Gold .000005" Gold                                |                               | D, W = Flush Mounting                                                           |
| Y = .000030" Gold .000005" Gold                                |                               | T, X = Flush Mounting With Threaded Inserts                                     |
| <b>Contact Surface Overall Plating</b>                         |                               | <b>TERMINATION TYPE (Opposite Page)</b>                                         |
| S = .000010" Gold                                              |                               | <b>Hairpin Bellows - Available with B or C plating and Phosphor Bronze Only</b> |
| M = .000030" Gold                                              |                               | CS = .025" [6.4mm] Square Dip Solder                                            |
| E = .000100" Pure Tin, Matte .000100" Pure Tin, Matte          |                               | CM = .025" [6.4mm] Square Wire Wrap                                             |
|                                                                |                               | CA, CB, CC = .025" [6.4mm] Square Right Angle                                   |
|                                                                |                               | CW, CT = .015" x .025" [.38 x .64] Dip Solder                                   |
|                                                                |                               | <b>Loop Bellows</b>                                                             |
|                                                                |                               | RS = .025" [6.4mm] Square Dip Solder                                            |
|                                                                |                               | CK, TK = .026" [0.66mm] Round Dip Solder                                        |
|                                                                |                               | RM = .025" [6.4mm] Square Wire Wrap                                             |
|                                                                |                               | TA, TB, TM = .025" [6.4mm] Square Right Angle                                   |
|                                                                |                               | <b>Cantilever Bellows - Available in Y, B, or C Contact Finish Only</b>         |
|                                                                |                               | <b>Not Available with R or A Materials</b>                                      |
|                                                                |                               | KS, KD = .025" [6.4mm] Square Dip Solder                                        |
|                                                                |                               | KM = .025" [6.4mm] Square Wire Wrap                                             |
|                                                                |                               | KA, KE, KU, KJ = .025" [6.4mm] Square Right Angle                               |
|                                                                |                               | KR, KN = .025" [6.4mm] Square Card Extender                                     |
| <b>CONTACT CENTERS</b>                                         |                               |                                                                                 |
| M = .156" [3.96mm]                                             |                               |                                                                                 |
| <b>NUMBER OF CONTACT POSITIONS</b>                             |                               |                                                                                 |
| See Chart Below                                                |                               |                                                                                 |
| <b>READOUT (Opposite Page)</b>                                 |                               |                                                                                 |
| D = Dual                                                       |                               |                                                                                 |
| H = Half Loaded                                                |                               |                                                                                 |

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.015 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.38 |
| 06/12                  | 0.780  | 1.102  | 1.221  | 1.534  | 1.784  | 1.030  | 19.81         | 27.99  | 31.01  | 38.96  | 45.31  | 26.16  |
| 08/16                  | 1.092  | 1.414  | 1.533  | 1.846  | 2.096  | 1.342  | 27.74         | 35.92  | 38.94  | 46.89  | 53.24  | 34.09  |
| 10/20                  | 1.404  | 1.726  | 1.845  | 2.158  | 2.408  | 1.654  | 35.66         | 43.84  | 46.86  | 54.81  | 61.16  | 42.01  |
| 12/24                  | 1.716  | 2.038  | 2.157  | 2.470  | 2.720  | 1.966  | 43.59         | 51.77  | 54.79  | 62.74  | 69.09  | 49.94  |
| 15/30                  | 2.184  | 2.506  | 2.625  | 2.938  | 3.188  | 2.434  | 55.47         | 63.65  | 66.68  | 74.63  | 80.98  | 61.82  |
| 18/36                  | 2.652  | 2.974  | 3.093  | 3.406  | 3.656  | 2.902  | 67.36         | 75.54  | 78.56  | 86.51  | 92.86  | 73.71  |
| 20/40*                 | 2.964  | 3.286  | 3.405  | 3.718  | 3.968  | 3.214  | 75.29         | 83.46  | 86.49  | 94.44  | 100.79 | 81.64  |
| 22/44                  | 3.276  | 3.598  | 3.717  | 4.030  | 4.280  | 3.526  | 83.21         | 91.39  | 94.41  | 102.36 | 108.71 | 89.56  |
| 24/48                  | 3.588  | 3.910  | 4.029  | 4.342  | 4.592  | 3.838  | 91.14         | 99.31  | 102.34 | 110.29 | 116.64 | 97.49  |
| 25/50                  | 3.744  | 4.066  | 4.185  | 4.498  | 4.748  | 3.994  | 95.10         | 103.28 | 106.30 | 114.25 | 120.60 | 101.45 |
| 28/56                  | 4.212  | 4.534  | 4.653  | 4.966  | 5.216  | 4.462  | 106.98        | 115.16 | 118.19 | 126.14 | 132.49 | 113.33 |
| 30/60                  | 4.524  | 4.846  | 4.965  | 5.278  | 5.528  | 4.774  | 114.91        | 123.09 | 126.11 | 134.06 | 140.41 | 121.26 |
| 31/62                  | 4.680  | 5.002  | 5.121  | 5.434  | 5.684  | 4.930  | 118.87        | 127.05 | 130.07 | 138.02 | 144.37 | 125.22 |
| 36/72                  | 5.460  | 5.782  | 5.901  | 6.214  | 6.464  | 5.710  | 138.68        | 146.86 | 149.89 | 157.84 | 164.19 | 145.03 |
| 40/80                  | 6.084  | 6.406  | 6.525  | 6.838  | 7.088  | 6.334  | 154.53        | 162.71 | 165.74 | 173.69 | 180.04 | 160.88 |
| 43/86                  | 6.552  | 6.874  | 6.993  | 7.306  | 7.556  | 6.802  | 166.42        | 174.60 | 177.62 | 185.57 | 191.92 | 172.77 |

\* Consult Factory for availability.



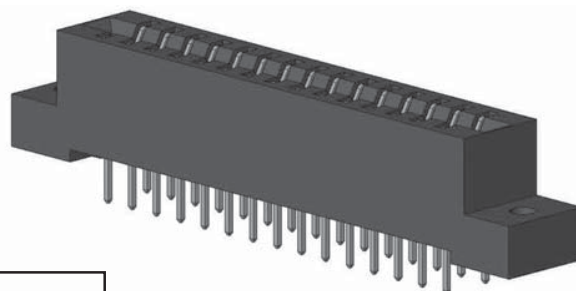
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

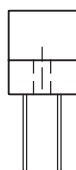
**.156" [3.96mm] Contact Centers, .610" Insulator Height**  
**Dip Solder/Wire Wrap/Right Angle for .093" [2.36] or .125" [3.18] Mating PCB**

### SPECIFICATIONS

- Accommodates .093"  $\pm$  .008" [2.36  $\pm$  .20] or .125"  $\pm$  .008" [3.18  $\pm$  .20] mating PCB (Consult factory for .031"  $\pm$  .008" [.79  $\pm$  .20] boards)
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 amp current rating per contact
- 30 milli ohm maximum at rated current

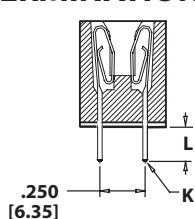


### READOUT

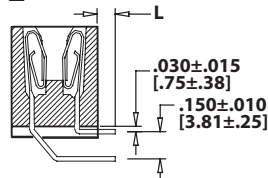


DUAL (D)

### TERMINATION TYPE



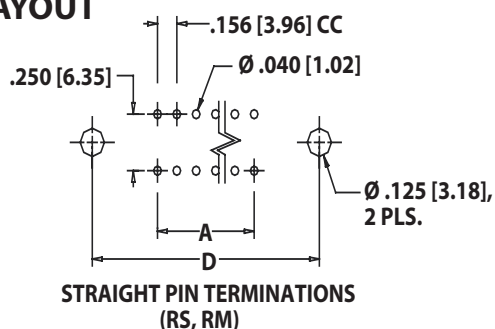
LOOP  
BELLOWS  
(RS, RM)



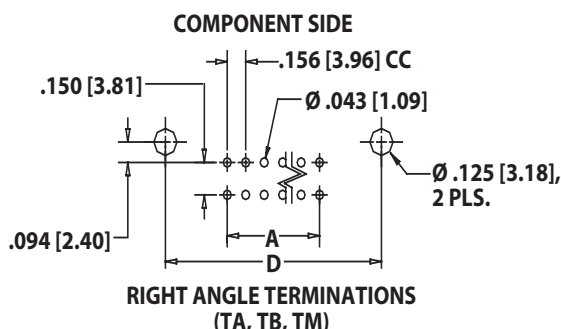
RIGHT ANGLE  
DIP SOLDER  
(TA, TB, TM)

| TERMINATION TYPE |             | POST CROSS SECTION (K) | POST LENGTH L $\pm$ .025 [.64] | FITS MIN. HOLE SIZE |
|------------------|-------------|------------------------|--------------------------------|---------------------|
| RS               | Dip Solder  | .025 [.64] SQUARE      | .190 [4.83]                    | .040 [1.02]         |
| RM               | Wire Wrap   | .025 [.64] SQUARE      | .560 [14.20]                   | .040 [1.02]         |
| TA               | Right Angle | .025 [.64] SQUARE      | .100 [2.54]                    | .043 [1.09]         |
| TB               | Right Angle | .025 [.64] SQUARE      | .180 [4.57]                    | .043 [1.09]         |
| TM               | Right Angle | .025 [.64] SQUARE      | .250 [6.35]                    | .043 [1.09]         |

### PCB LAYOUT

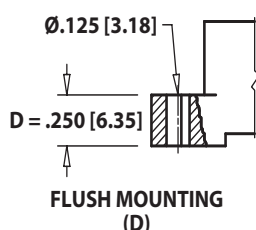


STRAIGHT PIN TERMINATIONS  
(RS, RM)

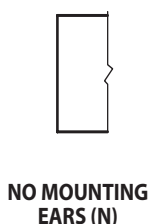


RIGHT ANGLE TERMINATIONS  
(TA, TB, TM)

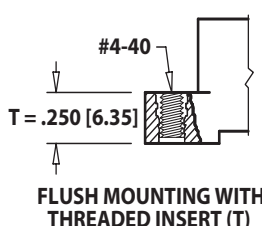
### MOUNTING STYLE



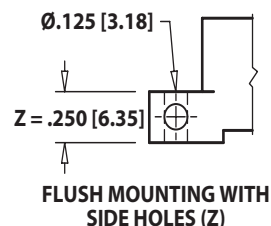
FLUSH MOUNTING  
(D)



NO MOUNTING  
EARS (N)



FLUSH MOUNTING WITH  
THREADED INSERT (T)



FLUSH MOUNTING WITH  
SIDE HOLES (Z)

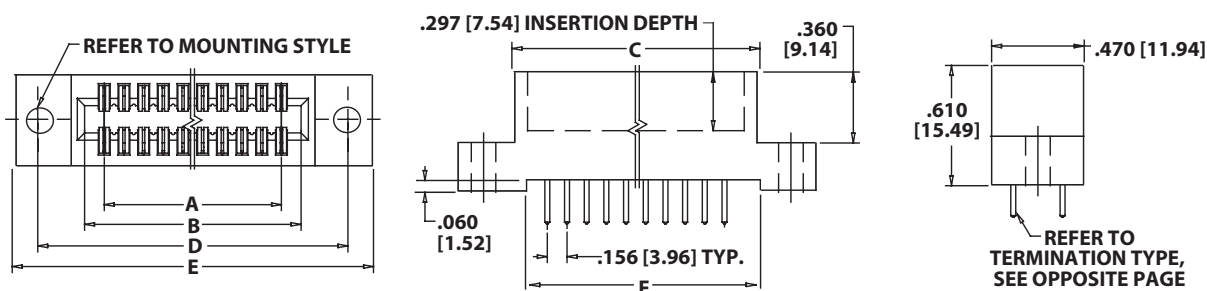
**.156" [3.96mm] Contact Centers, .610" Insulator Height**  
**Dip Solder/Wire Wrap/Right Angle for .093" [2.36] or .125" [3.18] Mating PCB**

**PART NUMBER CODING**

|                                                                |                               |                                               |
|----------------------------------------------------------------|-------------------------------|-----------------------------------------------|
| <b>MATERIALS (Insulator/Contact)</b>                           | <b>E B M 43 D RM D - S273</b> | <b>MODIFICATION CODE</b> (Consult Factory)    |
| E = PBT/Phosphor Bronze (Standard)                             |                               | -S273 = FOR .093" ± .008" [2.36 ± .20]        |
| R = PPS/Phosphor Bronze                                        |                               | THICK MATING PCB                              |
| G = PA9T/Phosphor Bronze                                       |                               | -S664 = FOR .125" ± .008" [3.18 ± .20]        |
| A = PPS/Beryllium Copper                                       |                               | THICK MATING PCB                              |
| J = PA9T/Beryllium Copper                                      |                               |                                               |
| (Consult Factory For Other Materials)                          |                               |                                               |
| <b>CONTACT FINISH - RoHS Compliant</b>                         |                               | <b>MOUNTING STYLE (Opposite Page)</b>         |
| All platings are Lead Free and have .000050" Nickel underplate |                               | N = No Mounting                               |
| <b>Contact Surface</b>                                         |                               | D = Flush Mounting                            |
| <b>Termination</b>                                             |                               | T = Flush Mounting With Threaded Inserts      |
| B = .000010" Gold .000100" Pure Tin, Matte                     |                               | Z = Flush Mounting With Side Holes            |
| C = .000030" Gold .000100" Pure Tin, Matte                     |                               |                                               |
| G = .000010" Gold .000005" Gold                                |                               | <b>TERMINATION TYPE (Opposite Page)</b>       |
| Y = .000030" Gold .000005" Gold                                |                               | RS = .025" [.64mm] Square Dip Solder          |
| <b>Contact Surface</b>                                         |                               | RM = .025" [.64mm] Square Wire Wrap           |
| <b>Overall Plating</b>                                         |                               | TA, TB, TM = .025" [.64mm] Square Right Angle |
| S = .000010" Gold .000010" Gold                                |                               |                                               |
| M = .000030" Gold .000010" Gold                                |                               | <b>READOUT (Opposite Page)</b>                |
| E = .000100" Pure Tin, Matte .000100" Pure Tin, Matte          |                               | D = Dual                                      |
| <b>CONTACT CENTERS</b>                                         |                               | <b>NUMBER OF CONTACT POSITIONS</b>            |
| M = .156" [3.96mm]                                             |                               | See Chart Below                               |

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.015 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.38 |
| 06/12                  | 0.780  | 1.102  | 1.221  | 1.534  | 1.784  | 1.104  | 19.81         | 27.99  | 31.01  | 38.96  | 45.31  | 28.04  |
| 08/16                  | 1.092  | 1.414  | 1.533  | 1.846  | 2.096  | 1.416  | 27.74         | 35.92  | 38.94  | 46.89  | 53.24  | 35.97  |
| 10/20*                 | 1.404  | 1.726  | 1.845  | 2.158  | 2.408  | 1.728  | 35.66         | 43.84  | 46.86  | 54.81  | 61.16  | 43.89  |
| 12/24                  | 1.716  | 2.038  | 2.157  | 2.470  | 2.720  | 2.040  | 43.59         | 51.77  | 54.79  | 62.74  | 69.09  | 51.82  |
| 15/30*                 | 2.184  | 2.506  | 2.625  | 2.938  | 3.188  | 2.508  | 55.47         | 63.65  | 66.68  | 74.63  | 80.98  | 63.70  |
| 18/36*                 | 2.652  | 2.974  | 3.093  | 3.406  | 3.656  | 2.976  | 67.36         | 75.54  | 78.56  | 86.51  | 92.86  | 75.59  |
| 20/40*                 | 2.964  | 3.286  | 3.405  | 3.718  | 3.968  | 3.288  | 75.29         | 83.46  | 86.49  | 94.44  | 100.79 | 83.52  |
| 22/44                  | 3.276  | 3.598  | 3.717  | 4.030  | 4.280  | 3.600  | 83.21         | 91.39  | 94.41  | 102.36 | 108.71 | 91.44  |
| 24/48*                 | 3.588  | 3.910  | 4.029  | 4.342  | 4.592  | 3.912  | 91.14         | 99.31  | 102.34 | 110.29 | 116.64 | 99.37  |
| 25/50*                 | 3.744  | 4.066  | 4.185  | 4.498  | 4.748  | 4.068  | 95.10         | 103.28 | 106.30 | 114.25 | 120.60 | 103.33 |
| 28/56*                 | 4.212  | 4.534  | 4.653  | 4.966  | 5.216  | 4.536  | 106.98        | 115.16 | 118.19 | 126.14 | 132.49 | 115.21 |
| 30/60*                 | 4.524  | 4.846  | 4.965  | 5.278  | 5.528  | 4.848  | 114.91        | 123.09 | 126.11 | 134.06 | 140.41 | 123.14 |
| 31/62*                 | 4.680  | 5.002  | 5.121  | 5.434  | 5.684  | 5.004  | 118.87        | 127.05 | 130.07 | 138.02 | 144.37 | 127.10 |
| 36/72                  | 5.460  | 5.782  | 5.901  | 6.214  | 6.464  | 5.784  | 138.68        | 146.86 | 149.89 | 157.84 | 164.19 | 146.91 |
| 40/80*                 | 6.084  | 6.406  | 6.525  | 6.838  | 7.088  | 6.408  | 154.53        | 162.71 | 165.74 | 173.69 | 180.04 | 162.76 |
| 43/86*                 | 6.552  | 6.874  | 6.993  | 7.306  | 7.556  | 6.876  | 166.42        | 174.60 | 177.62 | 185.57 | 191.92 | 174.65 |

\* Consult Factory for availability.



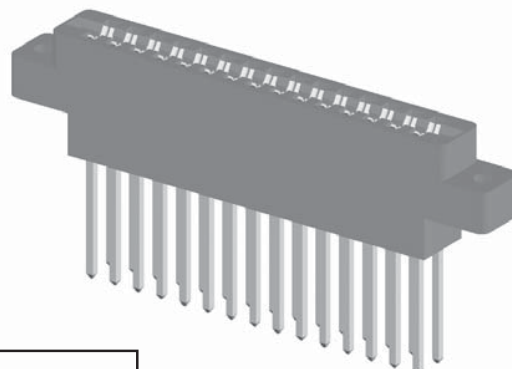
## Sullins Edgecards

MICROPLASTICS  
**SULLINS**

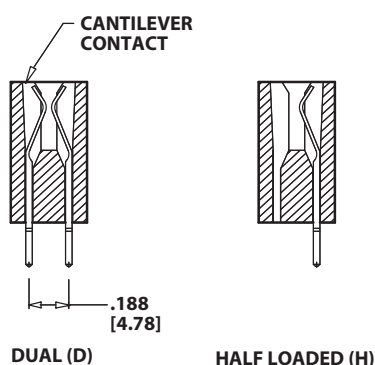
**.156" [3.96mm] Contact Centers, .720" Insulator Height**  
**.045" square / .031" x .062" Wire Wrap**

### SPECIFICATIONS

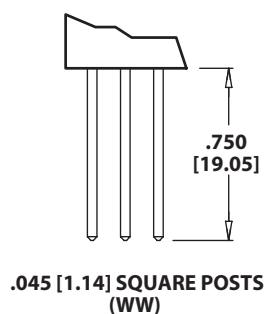
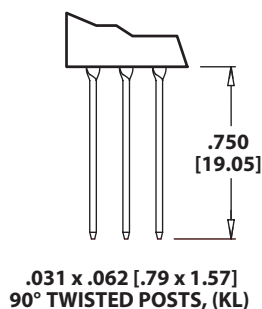
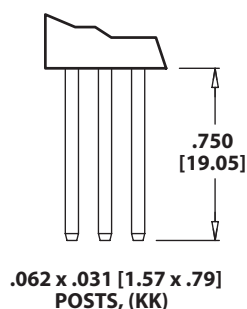
- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board
- PBT insulator
- Molded-in key available
- In Between Contact Key use PLC-K1, see page 126 (sold separately)
- 5 amp current rating per contact
- 30 milli ohm maximum at rated current



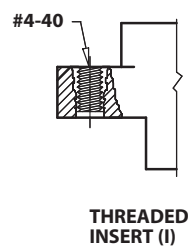
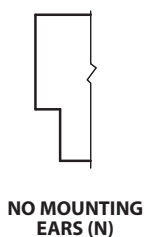
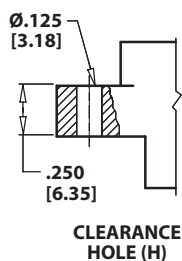
### READOUT



### TERMINATION TYPE



### MOUNTING STYLE



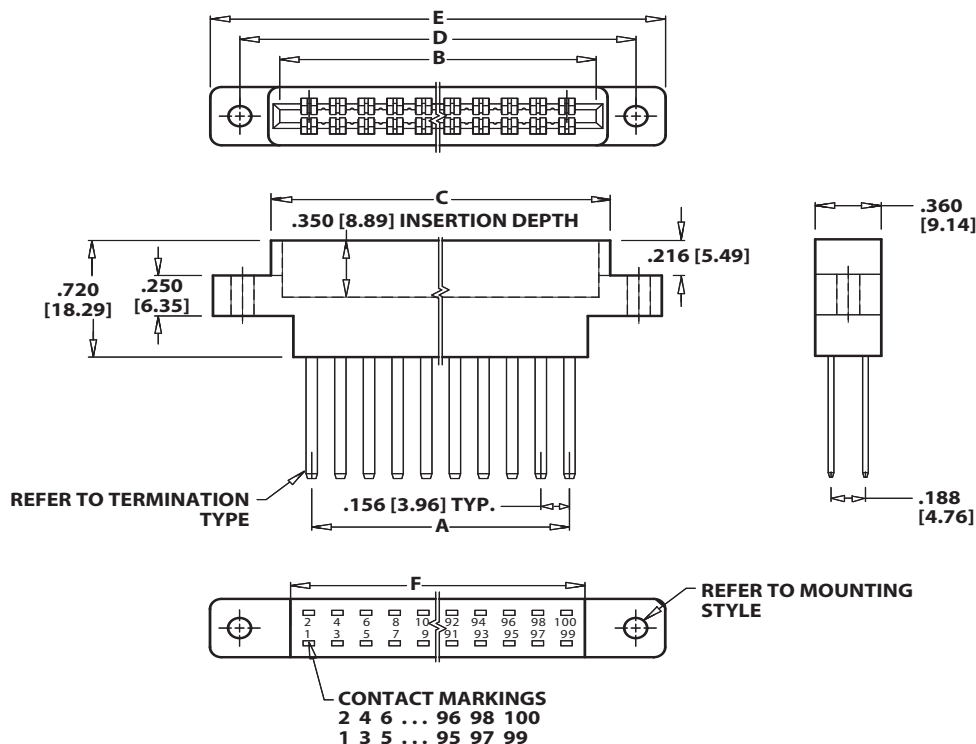
**.156" [3.96mm] Contact Centers, .720" Insulator Height**  
**.045" square / .031" x .062" Wire Wrap**

## PART NUMBER CODING

|                                                                                                          |          |          |          |           |          |           |          |               |                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------|----------|----------|----------|-----------|----------|-----------|----------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MATERIALS (Insulator/Contact)</b>                                                                     | <b>E</b> | <b>B</b> | <b>M</b> | <b>43</b> | <b>D</b> | <b>KK</b> | <b>H</b> | <b>- Sxxx</b> | <b>MODIFICATION CODE</b> (Consult Factory)<br>OMIT FOR STANDARD                                                                                                                    |
| E = PBT/Phosphor Bronze (Standard)<br>(Consult Factory For Other Materials)                              |          |          |          |           |          |           |          |               |                                                                                                                                                                                    |
| <b>CONTACT FINISH - RoHS Compliant</b><br>All platings are Lead Free and have .000050" Nickel underplate |          |          |          |           |          |           |          |               | <b>MOUNTING STYLE (Opposite page)</b><br>H = Clearance Hole<br>N = No Mounting<br>I = Threaded Inserts                                                                             |
| <b>Contact Surface</b>                                                                                   |          |          |          |           |          |           |          |               | <b>TERMINATION TYPE (Opposite Page)</b><br>KK = .031" [.79mm] x .062" [1.58mm] Post<br>KL = .031" [.79mm] x .062" [1.58mm] Post,<br>Twisted 90°<br>WW = .045" [1.14mm] Square Post |
| <b>Termination</b>                                                                                       |          |          |          |           |          |           |          |               | <b>READOUT (Opposite Page)</b><br>D = Dual Row<br>H = Half Loaded                                                                                                                  |
| B = .000010" Gold<br>C = .000030" Gold<br>G = .000010" Gold<br>Y = .000030" Gold                         |          |          |          |           |          |           |          |               | <b>NUMBER OF CONTACT POSITIONS</b><br>See Chart Below                                                                                                                              |
| <b>Overall Plating</b>                                                                                   |          |          |          |           |          |           |          |               |                                                                                                                                                                                    |
| S = .000010" Gold<br>M = .000030" Gold<br>E = .000100" Pure Tin, Matte                                   |          |          |          |           |          |           |          |               |                                                                                                                                                                                    |
| <b>CONTACT CENTERS</b><br>M = .156" [3.96mm]                                                             |          |          |          |           |          |           |          |               |                                                                                                                                                                                    |

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.015 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.38 |
| 06/12*                 | 0.780  | 1.100  | 1.224  | 1.534  | 1.784  | 0.980  | 19.81         | 27.94  | 31.09  | 38.96  | 45.31  | 24.89  |
| 10/20                  | 1.404  | 1.724  | 1.848  | 2.158  | 2.408  | 1.604  | 35.66         | 43.79  | 46.94  | 54.81  | 61.16  | 40.74  |
| 12/24                  | 1.716  | 2.036  | 2.160  | 2.470  | 2.720  | 1.916  | 43.59         | 51.71  | 54.86  | 62.74  | 69.09  | 48.67  |
| 15/30                  | 2.184  | 2.504  | 2.628  | 2.938  | 3.188  | 2.384  | 55.47         | 63.60  | 66.75  | 74.63  | 80.98  | 60.55  |
| 18/36                  | 2.652  | 2.972  | 3.096  | 3.406  | 3.656  | 2.852  | 67.36         | 75.49  | 78.64  | 86.51  | 92.86  | 72.44  |
| 22/44                  | 3.276  | 3.596  | 3.720  | 4.030  | 4.280  | 3.476  | 83.21         | 91.34  | 94.49  | 102.36 | 108.71 | 88.29  |
| 25/50*                 | 3.744  | 4.064  | 4.188  | 4.498  | 4.748  | 3.944  | 95.10         | 103.23 | 106.38 | 114.25 | 120.60 | 100.18 |
| 28/56                  | 4.212  | 4.532  | 4.656  | 4.966  | 5.216  | 4.412  | 106.98        | 115.11 | 118.26 | 126.14 | 132.49 | 112.06 |
| 30/60*                 | 4.524  | 4.844  | 4.968  | 5.278  | 5.528  | 4.724  | 114.91        | 123.04 | 126.19 | 134.06 | 140.41 | 119.99 |
| 31/62*                 | 4.680  | 5.000  | 5.124  | 5.434  | 5.684  | 4.880  | 118.87        | 127.00 | 130.15 | 138.02 | 144.37 | 123.95 |
| 36/72                  | 5.460  | 5.780  | 5.904  | 6.214  | 6.464  | 5.660  | 138.68        | 146.81 | 149.96 | 157.84 | 164.19 | 143.76 |
| 43/86*                 | 6.552  | 6.872  | 6.996  | 7.306  | 7.556  | 6.752  | 166.42        | 174.55 | 177.70 | 185.57 | 191.92 | 171.50 |
| 50/100*                | 7.644  | 7.964  | 8.088  | 8.398  | 8.648  | 7.844  | 194.16        | 202.29 | 205.44 | 213.31 | 219.66 | 199.24 |

\* Consult Factory for availability.



## Sullins Edgecards

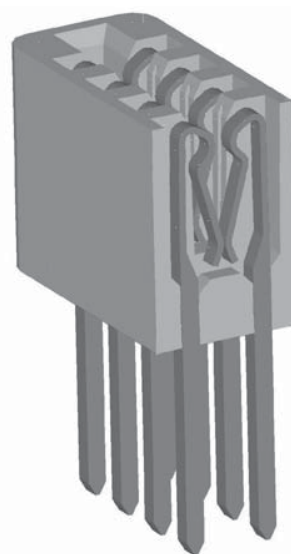
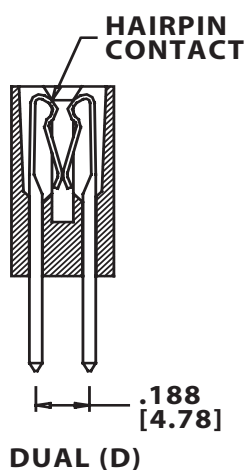
MICROPLASTICS  
**SULLINS**

**.156" [3.96mm] Contact Centers, .720" Insulator Height**  
**.045" square Make Before Break**

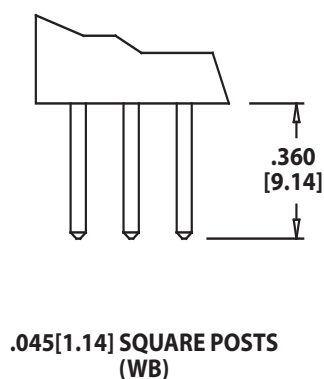
### SPECIFICATIONS

- Make before break (MBB) Application
- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board
- PBT, PPS or PA9T insulator
- Molded-in key available
- 5 amp current rating per contact
- 30 milli ohm maximum at rated current

#### READOUT



#### TERMINATION TYPE



#### MOUNTING STYLE



**NO MOUNTING EARS (N)**

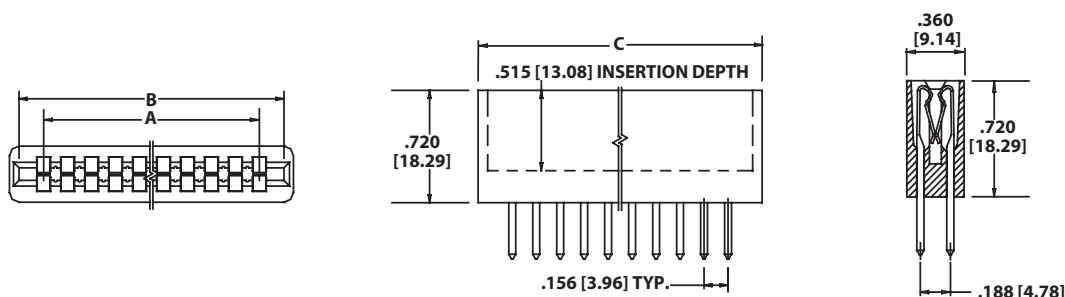


## PART NUMBER CODING

|                                                                       |          |          |           |                                            |           |          |               |
|-----------------------------------------------------------------------|----------|----------|-----------|--------------------------------------------|-----------|----------|---------------|
| <b>E</b>                                                              | <b>B</b> | <b>M</b> | <b>12</b> | <b>D</b>                                   | <b>WB</b> | <b>N</b> | <b>- S796</b> |
| <b>MATERIALS (Insulator/Contact)</b>                                  |          |          |           | <b>MODIFICATION CODE</b> (Consult Factory) |           |          |               |
| E = PBT/Phosphor Bronze (Standard)                                    |          |          |           | -S796 for MBB                              |           |          |               |
| R = PPS/Phosphor Bronze                                               |          |          |           | <b>MOUNTING STYLE (Opposite Page)</b>      |           |          |               |
| G = PA9T/Phosphor Bronze                                              |          |          |           | N = No Mounting                            |           |          |               |
| (Consult Factory For Other Materials)                                 |          |          |           | <b>TERMINATION TYPE (Opposite Page)</b>    |           |          |               |
| <b>CONTACT FINISH - RoHS Compliant</b>                                |          |          |           | WB = .045" [1.14mm] Square Post MBB        |           |          |               |
| <b>All platings are Lead Free and have .000050" Nickel underplate</b> |          |          |           | <b>READOUT (Opposite Page)</b>             |           |          |               |
| <b>Contact Surface Termination</b>                                    |          |          |           | D = Dual                                   |           |          |               |
| B = .000010" Gold .000100" Pure Tin, Matte                            |          |          |           | <b>NUMBER OF CONTACT POSITIONS</b>         |           |          |               |
| C = .000030" Gold .000100" Pure Tin, Matte                            |          |          |           | See Chart Below                            |           |          |               |
| <b>CONTACT CENTERS</b>                                                |          |          |           |                                            |           |          |               |
| M = .156" [3.96mm]                                                    |          |          |           |                                            |           |          |               |

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



Tolerances with PPS Insulator Material may vary slightly due to shrinkage differential; Consult Factory.

| POSITIONS/<br>CONTACTS | INCHES |        |        | [MILLIMETERS] |        |        |
|------------------------|--------|--------|--------|---------------|--------|--------|
|                        | A±.08  | B±.008 | C±.015 | A±0.20        | B±0.20 | C±0.38 |
| 10/20*                 | 1.404  | 1.724  | 1.848  | 35.66         | 43.79  | 46.94  |
| 12/24                  | 1.716  | 2.036  | 2.160  | 43.59         | 51.71  | 54.86  |
| 15/30*                 | 2.184  | 2.504  | 2.628  | 55.47         | 63.60  | 66.75  |
| 18/36*                 | 2.652  | 2.972  | 3.096  | 67.36         | 75.49  | 78.64  |
| 22/44*                 | 3.276  | 3.596  | 3.720  | 83.21         | 91.34  | 94.49  |
| 25/50*                 | 3.744  | 4.064  | 4.188  | 95.10         | 103.23 | 106.38 |
| 28/56*                 | 4.212  | 4.532  | 4.656  | 106.98        | 115.11 | 118.26 |
| 30/60*                 | 4.524  | 4.844  | 4.968  | 114.91        | 123.04 | 126.19 |
| 31/62*                 | 4.680  | 5.000  | 5.124  | 118.87        | 127.00 | 130.15 |
| 36/72*                 | 5.460  | 5.780  | 5.904  | 138.68        | 146.81 | 149.96 |
| 43/86*                 | 6.552  | 6.872  | 6.996  | 166.42        | 174.55 | 177.70 |
| 50/100*                | 7.644  | 7.964  | 8.088  | 194.16        | 202.29 | 205.44 |

\* Consult Factory for Availability.



## Sullins Headers

MICROPLASTICS  
**SULLINS**

**.050" [1.27mm] Contact Centers, Male Header,  
Dip Solder/Right Angle/SMT**

### SPECIFICATIONS

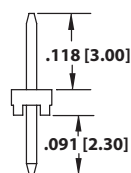
- Insulator Material: Nylon 9T
- Contact Material: Brass
- Plating: Overall Gold Flash
- 1 amp current rating per contact
- UL Flammability Rating: 94V-O



### TERMINATION TYPE

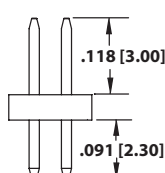
#### SINGLE READOUT

#### STRAIGHT



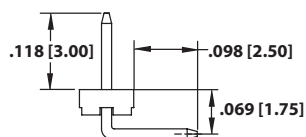
(VWVN)

#### DUAL READOUT

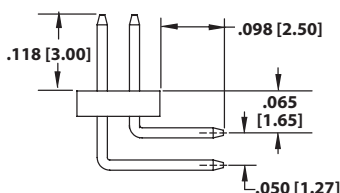


(VWVN)

#### RIGHT ANGLE

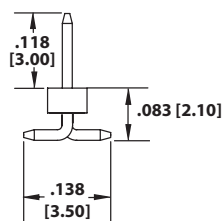


(VWCN)

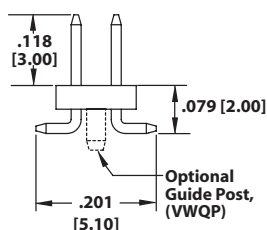


(MWCN)

#### SURFACE MOUNT (SMT)



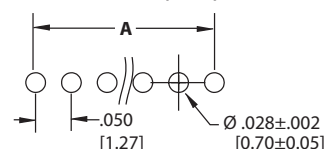
(VWTC)



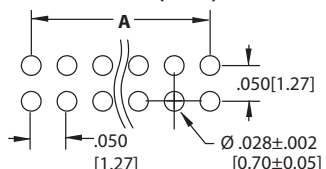
(VWQS), Without Guide Post  
(VWQP), With Guide Post

### PCB LAYOUT

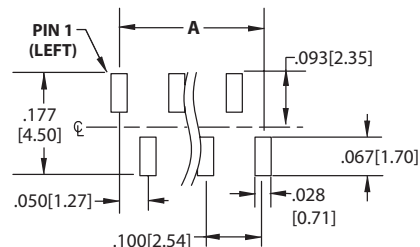
#### STRAIGHT (VWV) RIGHT ANGLE (VWC)



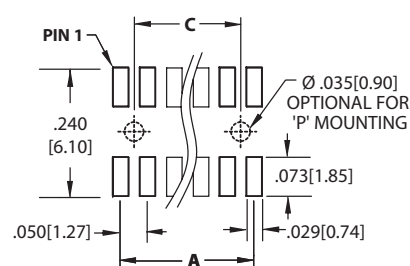
#### STRAIGHT (VWV) RIGHT ANGLE (MWC)



#### SURFACE MOUNT, PIN 1 LEFT (VWT)



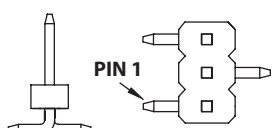
#### SURFACE MOUNT (VWQ)



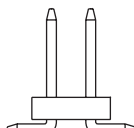
### MOUNTING STYLE



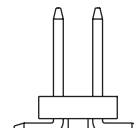
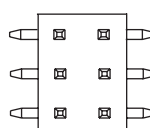
No Mounting,  
(N)



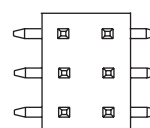
SMT, Pin 1 Left  
(C)



SMT, Without Guide Post  
(S)



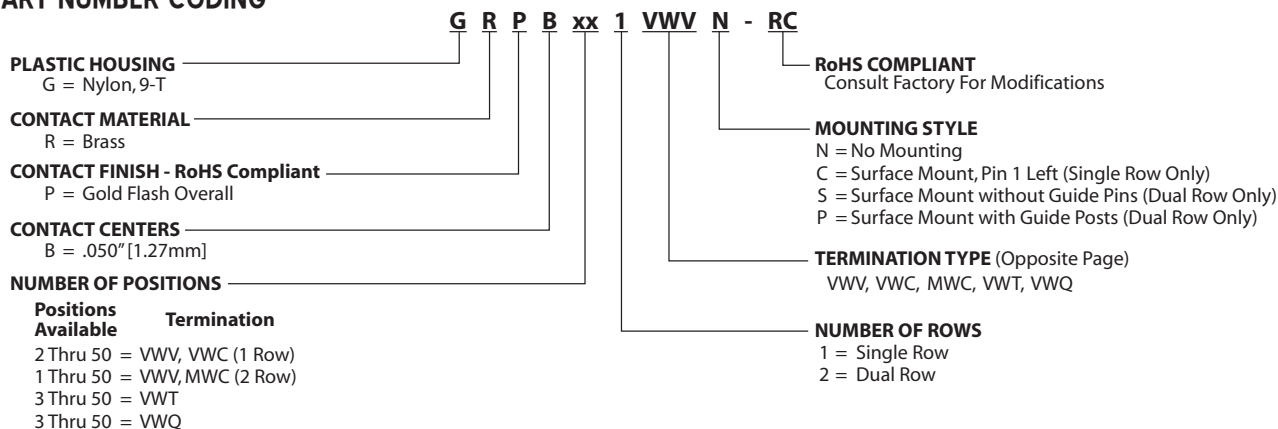
SMT, With Guide Post  
(P)



**.050"[1.27mm] Contact Centers, Male Header,  
Dip Solder/Right Angle/SMT**



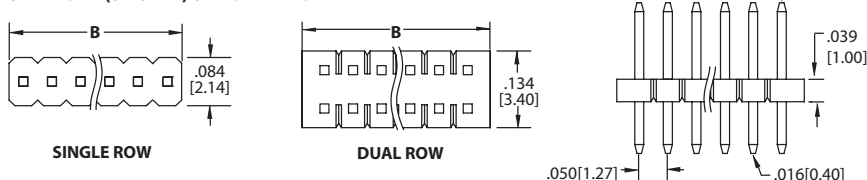
**PART NUMBER CODING**



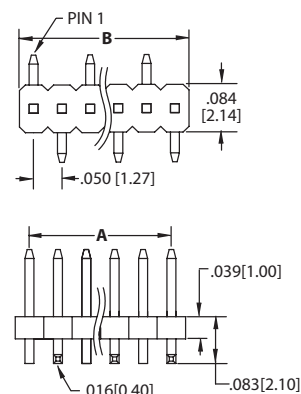
**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.

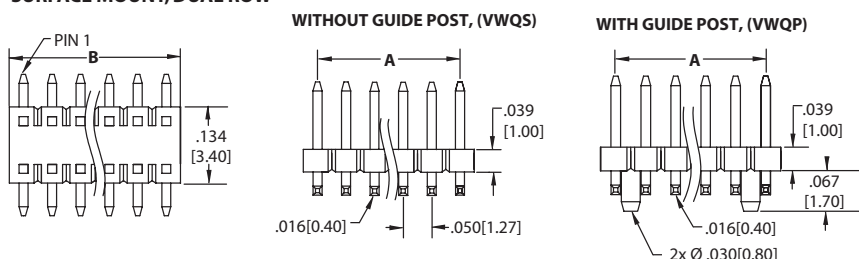
**STRAIGHT (SHOWN) & RIGHT ANGLE**



**SURFACE MOUNT, PIN 1 LEFT, SINGLE ROW**



**SURFACE MOUNT, DUAL ROW**



| Positions | Number of Contacts Single/Dual | DIMENSION A |       | DIMENSION B |       | DIMENSION C |       |
|-----------|--------------------------------|-------------|-------|-------------|-------|-------------|-------|
|           |                                | Inches      | [mm]  | Inches      | [mm]  | Inches      | [mm]  |
| 01        | 01/02                          | .000        | 0.00  | .050        | 1.27  |             |       |
| 02        | 02/04                          | .050        | 1.27  | .100        | 2.54  |             |       |
| 03        | 03/06                          | .100        | 2.54  | .150        | 3.81  | .050        | 1.27  |
| 04        | 04/08                          | .150        | 3.81  | .200        | 5.08  | .100        | 2.54  |
| 05        | 05/10                          | .200        | 5.08  | .250        | 6.35  | .150        | 3.81  |
| 06        | 06/12                          | .250        | 6.35  | .300        | 7.62  | .200        | 5.08  |
| 07        | 07/14                          | .300        | 7.62  | .350        | 8.89  | .250        | 6.35  |
| 08        | 08/16                          | .350        | 8.89  | .400        | 10.16 | .300        | 7.62  |
| 09        | 09/18                          | .400        | 10.16 | .450        | 11.43 | .350        | 8.89  |
| 10        | 10/20                          | .450        | 11.43 | .500        | 12.70 | .400        | 10.16 |
| 11        | 11/22                          | .500        | 12.70 | .550        | 13.97 | .450        | 11.43 |
| 12        | 12/24                          | .550        | 13.97 | .600        | 15.24 | .500        | 12.70 |
| 13        | 13/26                          | .600        | 15.24 | .650        | 16.51 | .550        | 13.97 |
| 14        | 14/28                          | .650        | 16.51 | .700        | 17.78 | .600        | 15.24 |
| 15        | 15/30                          | .700        | 17.78 | .750        | 19.05 | .650        | 16.51 |
| 16        | 16/32                          | .750        | 19.05 | .800        | 20.32 | .700        | 17.78 |
| 17        | 17/34                          | .800        | 20.32 | .850        | 21.59 | .750        | 19.05 |
| 18        | 18/36                          | .850        | 21.59 | .900        | 22.86 | .800        | 20.32 |
| 19        | 19/38                          | .900        | 22.86 | .950        | 24.13 | .850        | 21.59 |
| 20        | 20/40                          | .950        | 24.13 | 1.000       | 25.40 | .900        | 22.86 |
| 21        | 21/42                          | 1.000       | 25.40 | 1.050       | 26.67 | .950        | 24.13 |
| 22        | 22/44                          | 1.050       | 26.67 | 1.100       | 27.94 | 1.000       | 25.40 |
| 23        | 23/46                          | 1.100       | 27.94 | 1.150       | 29.21 | 1.050       | 26.67 |
| 24        | 24/48                          | 1.150       | 29.21 | 1.200       | 30.48 | 1.100       | 27.94 |
| 25        | 25/50                          | 1.200       | 30.48 | 1.250       | 31.75 | 1.150       | 29.21 |

| Positions | Number of Contacts Single/Dual | DIMENSION A |       | DIMENSION B |       | DIMENSION C |       |
|-----------|--------------------------------|-------------|-------|-------------|-------|-------------|-------|
|           |                                | Inches      | [mm]  | Inches      | [mm]  | Inches      | [mm]  |
| 26        | 26/52                          | 1.250       | 31.75 | 1.300       | 33.02 | 1.200       | 30.48 |
| 27        | 27/54                          | 1.300       | 33.02 | 1.350       | 34.29 | 1.250       | 31.75 |
| 28        | 28/56                          | 1.350       | 34.29 | 1.400       | 35.56 | 1.300       | 33.02 |
| 29        | 29/58                          | 1.400       | 35.56 | 1.450       | 36.83 | 1.350       | 34.29 |
| 30        | 30/60                          | 1.450       | 36.83 | 1.500       | 38.10 | 1.400       | 35.56 |
| 31        | 31/62                          | 1.500       | 38.10 | 1.550       | 39.37 | 1.450       | 36.83 |
| 32        | 32/64                          | 1.550       | 39.37 | 1.600       | 40.64 | 1.500       | 38.10 |
| 33        | 33/66                          | 1.600       | 40.64 | 1.650       | 41.91 | 1.550       | 39.37 |
| 34        | 34/68                          | 1.650       | 41.91 | 1.700       | 43.18 | 1.600       | 40.64 |
| 35        | 35/70                          | 1.700       | 43.18 | 1.750       | 44.45 | 1.650       | 41.91 |
| 36        | 36/72                          | 1.750       | 44.45 | 1.800       | 45.72 | 1.700       | 43.18 |
| 37        | 37/74                          | 1.800       | 45.72 | 1.850       | 46.99 | 1.750       | 44.45 |
| 38        | 38/76                          | 1.850       | 46.99 | 1.900       | 48.26 | 1.800       | 45.72 |
| 39        | 39/78                          | 1.900       | 48.26 | 1.950       | 49.53 | 1.850       | 46.99 |
| 40        | 40/80                          | 1.950       | 49.53 | 2.000       | 50.80 | 1.900       | 48.26 |
| 41        | 41/82                          | 2.000       | 50.80 | 2.050       | 52.07 | 1.950       | 49.53 |
| 42        | 42/84                          | 2.050       | 52.07 | 2.100       | 53.34 | 2.000       | 50.80 |
| 43        | 43/86                          | 2.100       | 53.34 | 2.150       | 54.61 | 2.050       | 52.07 |
| 44        | 44/88                          | 2.150       | 54.61 | 2.200       | 55.88 | 2.100       | 53.34 |
| 45        | 45/90                          | 2.200       | 55.88 | 2.250       | 57.15 | 2.150       | 54.61 |
| 46        | 46/92                          | 2.250       | 57.15 | 2.300       | 58.42 | 2.200       | 55.88 |
| 47        | 47/94                          | 2.300       | 58.42 | 2.350       | 59.69 | 2.250       | 57.15 |
| 48        | 48/96                          | 2.350       | 59.69 | 2.400       | 60.96 | 2.300       | 58.42 |
| 49        | 49/98                          | 2.400       | 60.96 | 2.450       | 62.23 | 2.350       | 59.69 |
| 50        | 50/100                         | 2.450       | 62.23 | 2.500       | 63.50 | 2.400       | 60.96 |



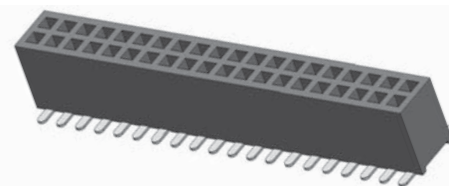
## Sullins Headers

**MICROPLASTICS**  
**SULLINS**

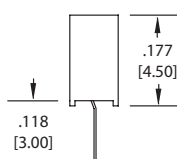
**.050" [1.27mm] Contact Centers, Female Header,  
Dip Solder/Right Angle/SMT**

### SPECIFICATIONS

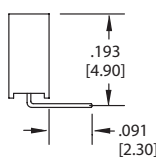
- Insulator Material: Nylon 9T
- Contact Material: Brass
- Plating: Overall Gold Flash
- 1 amp current rating per contact
- UL Flammability Rating: 94V-O



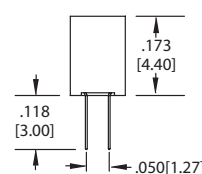
### TERMINATION TYPE



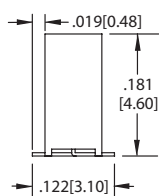
**SINGLE ROW,  
STRAIGHT  
(NFFN)**



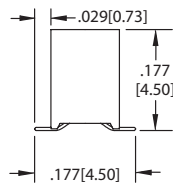
**SINGLE ROW,  
RIGHT ANGLE  
(NGCN)**



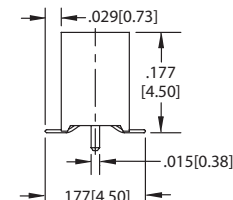
**DUAL ROW,  
STRAIGHT  
(CFFN)**



**SINGLE ROW,  
SMT  
(NFSC)**

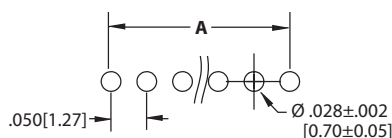


**DUAL ROW,  
SMT Without Guide Posts  
(NFSS)**

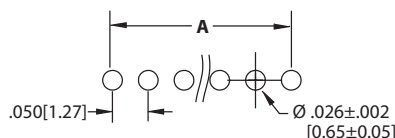


**DUAL ROW,  
SMT With Guide Posts  
(NFSP)**

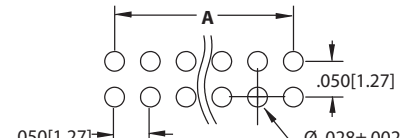
### PCB LAYOUT



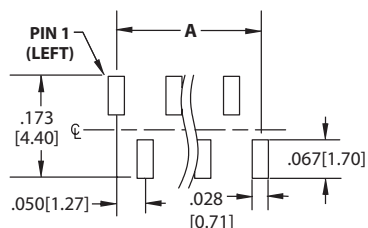
**(NFFN)**



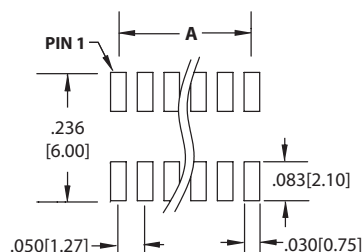
**(NGCN)**



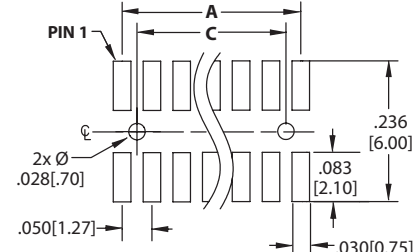
**(CFFN)**



**(NFSC)**

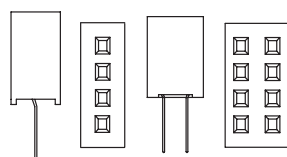


**(NFSS)**

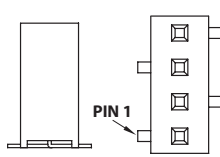


**(NFSP)**

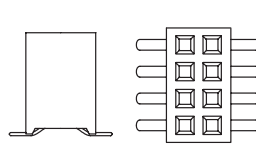
### MOUNTING STYLE



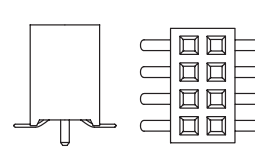
**SINGLE & DUAL ROW  
NO MOUNTING  
(N)**



**SINGLE ROW  
SMT, Pin 1 Left  
(C)**



**DUAL ROW  
SMT Without Guide Post  
(S)**

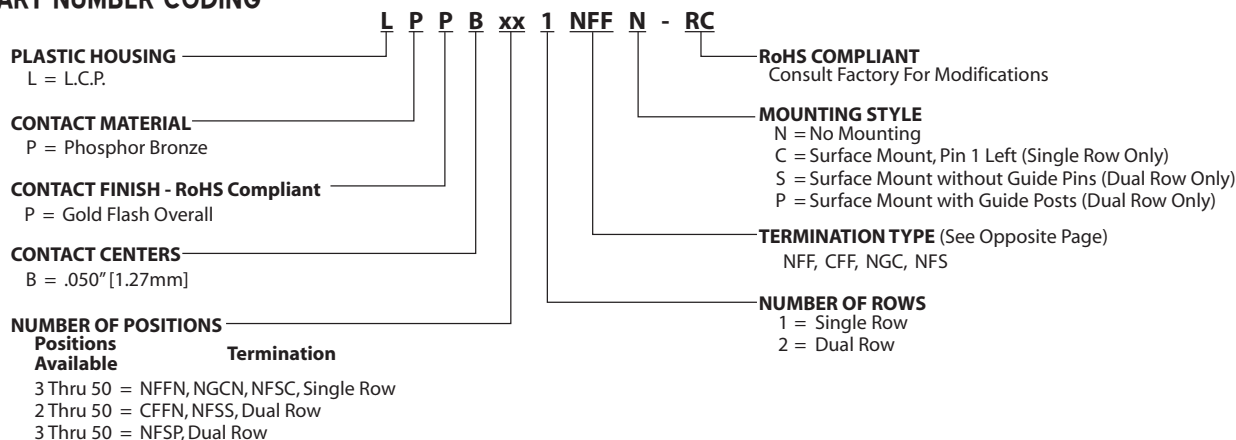


**DUAL ROW  
SMT With Guide Post  
(P)**

**.050"[1.27mm] Contact Centers, Female Header,  
Dip Solder/Right Angle/SMT**

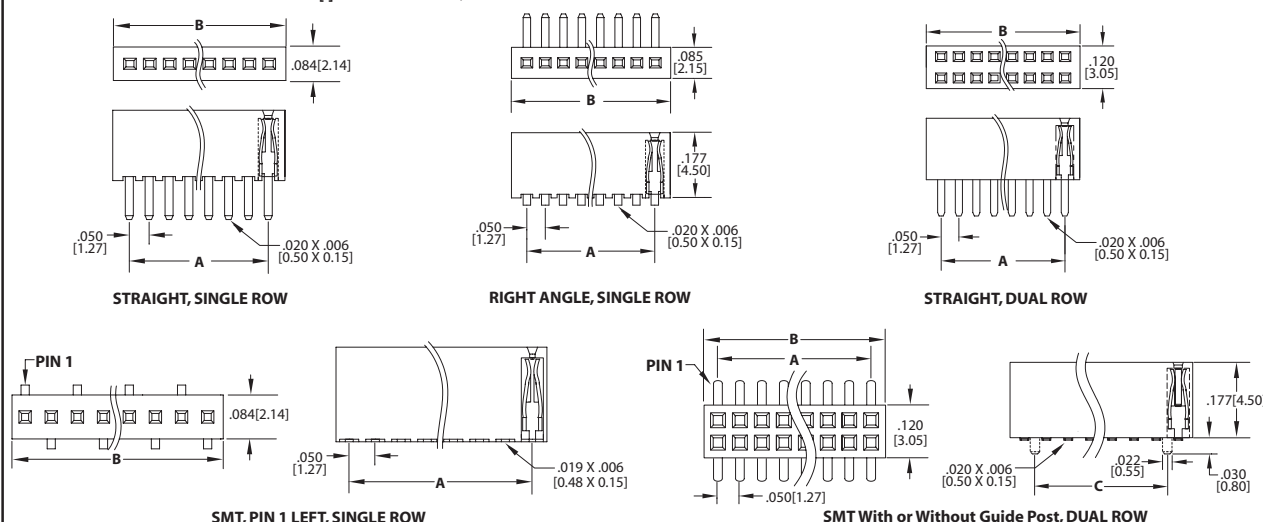


**PART NUMBER CODING**



**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



| Positions | Number of Contacts<br>Single/Dual | DIMENSION A |       | DIMENSION B |       | DIMENSION C |       |
|-----------|-----------------------------------|-------------|-------|-------------|-------|-------------|-------|
|           |                                   | Inches      | [mm]  | Inches      | [mm]  | Inches      | [mm]  |
| 02        | 2/4                               | .050        | 1.27  | .115        | 2.92  |             |       |
| 03        | 3/6                               | .100        | 2.54  | .165        | 4.19  | .050        | 1.27  |
| 04        | 4/8                               | .150        | 3.81  | .215        | 5.46  | .100        | 2.54  |
| 05        | 5/10                              | .200        | 5.08  | .265        | 6.73  | .150        | 3.81  |
| 06        | 6/12                              | .250        | 6.35  | .315        | 8.00  | .200        | 5.08  |
| 07        | 7/14                              | .300        | 7.62  | .365        | 9.27  | .250        | 6.35  |
| 08        | 8/16                              | .350        | 8.89  | .415        | 10.54 | .300        | 7.62  |
| 09        | 9/18                              | .400        | 10.16 | .465        | 11.81 | .350        | 8.89  |
| 10        | 10/20                             | .450        | 11.43 | .515        | 13.08 | .400        | 10.16 |
| 11        | 11/22                             | .500        | 12.70 | .565        | 14.35 | .450        | 11.43 |
| 12        | 12/24                             | .550        | 13.97 | .615        | 15.62 | .500        | 12.70 |
| 13        | 13/26                             | .600        | 15.24 | .665        | 16.89 | .550        | 13.97 |
| 14        | 14/28                             | .650        | 16.51 | .715        | 18.16 | .600        | 15.24 |
| 15        | 15/30                             | .700        | 17.78 | .765        | 19.43 | .650        | 16.51 |
| 16        | 16/32                             | .750        | 19.05 | .815        | 20.70 | .700        | 17.78 |
| 17        | 17/34                             | .800        | 20.32 | .865        | 21.97 | .750        | 19.05 |
| 18        | 18/36                             | .850        | 21.59 | .915        | 23.24 | .800        | 20.32 |
| 19        | 19/38                             | .900        | 22.86 | .965        | 24.51 | .850        | 21.59 |
| 20        | 20/40                             | .950        | 24.13 | 1.015       | 25.78 | .900        | 22.86 |
| 21        | 21/42                             | 1.000       | 25.40 | 1.065       | 27.05 | .950        | 24.13 |
| 22        | 22/44                             | 1.050       | 26.67 | 1.115       | 28.32 | 1.000       | 25.40 |
| 23        | 23/46                             | 1.100       | 27.94 | 1.165       | 29.59 | 1.050       | 26.67 |
| 24        | 24/48                             | 1.150       | 29.21 | 1.215       | 30.86 | 1.100       | 27.94 |
| 25        | 25/50                             | 1.200       | 30.48 | 1.265       | 32.13 | 1.150       | 29.21 |

| Positions | Number of Contacts<br>Single/Dual | DIMENSION A |       | DIMENSION B |       | DIMENSION C |       |
|-----------|-----------------------------------|-------------|-------|-------------|-------|-------------|-------|
|           |                                   | Inches      | [mm]  | Inches      | [mm]  | Inches      | [mm]  |
| 26        | 26/52                             | 1.250       | 31.75 | 1.315       | 33.40 | 1.200       | 30.48 |
| 27        | 27/54                             | 1.300       | 33.02 | 1.365       | 34.67 | 1.250       | 31.75 |
| 28        | 28/56                             | 1.350       | 34.29 | 1.415       | 35.94 | 1.300       | 33.02 |
| 29        | 29/58                             | 1.400       | 35.56 | 1.465       | 37.21 | 1.350       | 34.29 |
| 30        | 30/60                             | 1.450       | 36.83 | 1.515       | 38.48 | 1.400       | 35.56 |
| 31        | 31/62                             | 1.500       | 38.10 | 1.565       | 39.75 | 1.450       | 36.83 |
| 32        | 32/64                             | 1.550       | 39.37 | 1.615       | 41.02 | 1.500       | 38.10 |
| 33        | 33/66                             | 1.600       | 40.64 | 1.665       | 42.29 | 1.550       | 39.37 |
| 34        | 34/68                             | 1.650       | 41.91 | 1.715       | 43.56 | 1.600       | 40.64 |
| 35        | 35/70                             | 1.700       | 43.18 | 1.765       | 44.83 | 1.650       | 41.91 |
| 36        | 36/72                             | 1.750       | 44.45 | 1.815       | 46.10 | 1.700       | 43.18 |
| 37        | 37/74                             | 1.800       | 45.72 | 1.865       | 47.37 | 1.750       | 44.45 |
| 38        | 38/76                             | 1.850       | 46.99 | 1.915       | 48.64 | 1.800       | 45.70 |
| 39        | 39/78                             | 1.900       | 48.26 | 1.965       | 49.91 | 1.850       | 46.99 |
| 40        | 40/80                             | 1.950       | 49.53 | 2.015       | 51.18 | 1.900       | 48.26 |
| 41        | 41/82                             | 2.000       | 50.80 | 2.065       | 52.45 | 1.950       | 49.53 |
| 42        | 42/84                             | 2.050       | 52.07 | 2.115       | 53.72 | 2.000       | 50.80 |
| 43        | 43/86                             | 2.100       | 53.34 | 2.165       | 54.99 | 2.050       | 52.07 |
| 44        | 44/88                             | 2.150       | 54.61 | 2.215       | 56.26 | 2.100       | 53.34 |
| 45        | 45/90                             | 2.200       | 55.88 | 2.265       | 57.53 | 2.150       | 54.61 |
| 46        | 46/92                             | 2.250       | 57.15 | 2.315       | 58.80 | 2.200       | 55.88 |
| 47        | 47/94                             | 2.300       | 58.42 | 2.365       | 60.07 | 2.250       | 57.15 |
| 48        | 48/96                             | 2.350       | 59.69 | 2.415       | 61.34 | 2.300       | 58.42 |
| 49        | 49/98                             | 2.400       | 60.96 | 2.465       | 62.61 | 2.350       | 59.69 |
| 50        | 50/100                            | 2.450       | 62.23 | 2.515       | 63.88 | 2.400       | 60.96 |



## Sullins Headers

MICROPLASTICS  
**SULLINS**

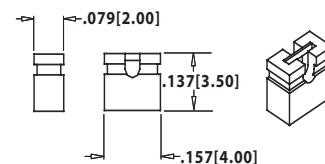
### .079"[2mm] Contact Centers, Male Header Dip Solder/Right Angle/SMT

#### SPECIFICATIONS

- 1 amp current rating per contact
- UL Flammability Rating: 94V-O
- Insulator: Black Thermoplastic Polyester/Nylon 6-T
- Contact Material: Brass

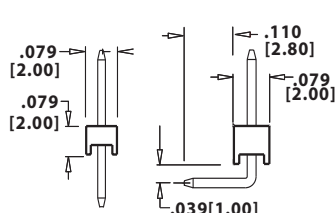


#### JUMPERS

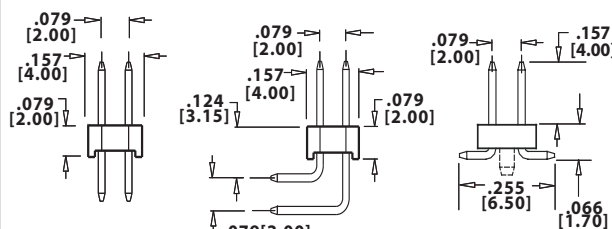


PART NUMBER:  
SPN02SYBN-RC (GOLD FLASH)  
STN02SYBN-RC (TIN PLATE)

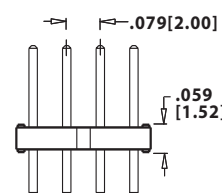
#### READOUT



SINGLE (1)

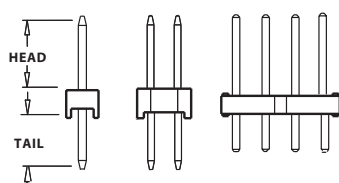


DUAL (2)

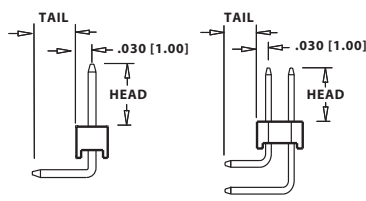


QUAD (4)

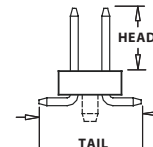
#### TERMINATION TYPE



STRAIGHT



RIGHT ANGLE



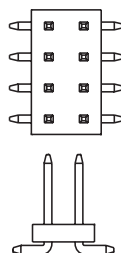
SMT

| P/N CODE | ROWS | TERM     | HEAD        | TAIL        | P/N CODE | ROWS | TERM        | HEAD        | TAIL        | P/N CODE | ROWS | TERM | HEAD        | TAIL        |
|----------|------|----------|-------------|-------------|----------|------|-------------|-------------|-------------|----------|------|------|-------------|-------------|
| PAE      | 1    | STRAIGHT | .157"[4.00] | .110"[2.80] | PAR      | 1    | RIGHT ANGLE | .157"[4.00] | .110"[2.80] |          |      |      |             |             |
| PAE      | 2    | STRAIGHT | .157"[4.00] | .110"[2.80] | PAR      | 2    | RIGHT ANGLE | .157"[4.00] | .110"[2.80] | MAM      | 2    | SMT  | .157"[4.00] | .255"[6.50] |
| RCC      | 4    | STRAIGHT | .173"[4.40] | .094"[2.40] |          |      |             |             |             |          |      |      |             |             |

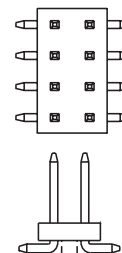
#### MOUNTING STYLE



No Mounting-  
Default Standard (N)



Two Row SMT,  
Without Guide Post (S)

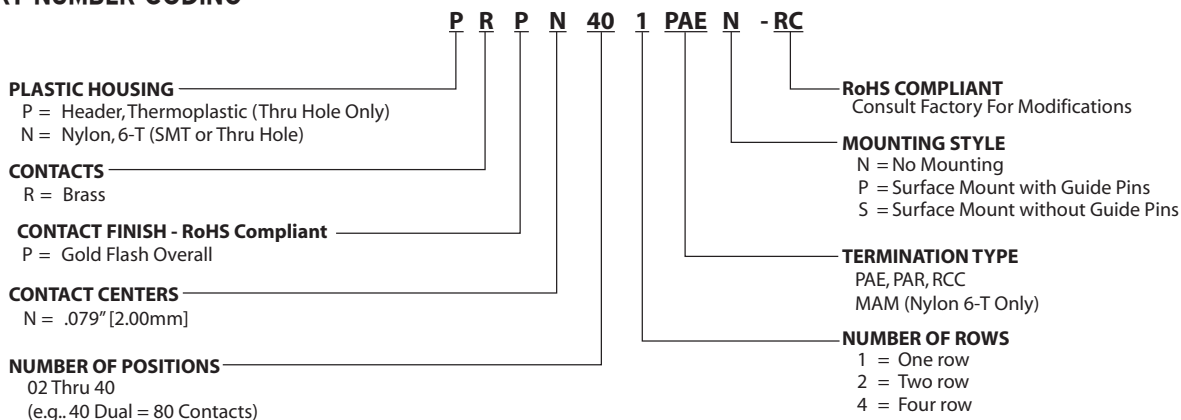


Two Row SMT,  
With Guide Post (P)

**.079"[2mm] Contact Centers, Male Header**  
**Dip Solder/Right Angle/SMT**

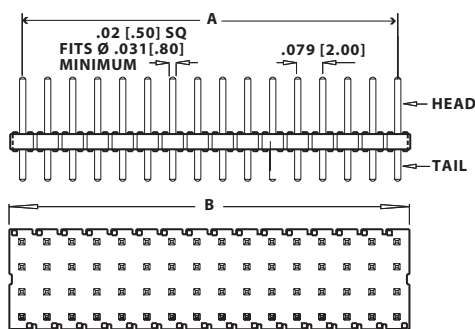


**PART NUMBER CODING**

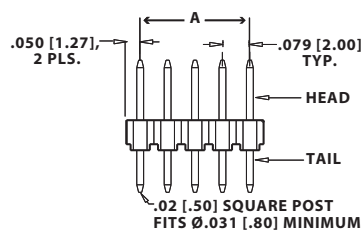


**DIMENSIONS**

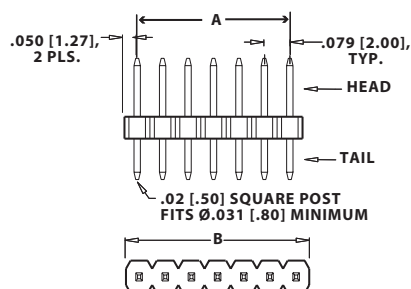
Dimensions in [ ] are in millimeters, all others are in inches.



**QUAD READOUT,  
STRAIGHT TAIL SHOWN**



**DUAL READOUT,  
STRAIGHT TAIL SHOWN**



**SINGLE READOUT,  
STRAIGHT TAIL SHOWN**

| PART NUMBER        | NUMBER OF CONTACTS SINGLE/DUAL/QUAD | DIMENSION A |       | DIMENSION B |       |
|--------------------|-------------------------------------|-------------|-------|-------------|-------|
|                    |                                     | INCHES      | [MM]  | INCHES      | [MM]  |
| _ RPN02 _ _ _ N-RC | 02/04                               | 0.079       | 2.00  | 0.157       | 4.00  |
| _ RPN03 _ _ _ N-RC | 03/06                               | 0.157       | 4.00  | 0.236       | 6.00  |
| _ RPN04 _ _ _ N-RC | 04/08                               | 0.236       | 6.00  | 0.315       | 8.00  |
| _ RPN05 _ _ _ N-RC | 05/10                               | 0.315       | 8.00  | 0.394       | 10.00 |
| _ RPN06 _ _ _ N-RC | 06/12/24                            | 0.394       | 10.00 | 0.472       | 12.00 |
| _ RPN07 _ _ _ N-RC | 07/14                               | 0.472       | 12.00 | 0.551       | 14.00 |
| _ RPN08 _ _ _ N-RC | 08/16                               | 0.551       | 14.00 | 0.630       | 16.00 |
| _ RPN09 _ _ _ N-RC | 09/18                               | 0.630       | 16.00 | 0.709       | 18.00 |
| _ RPN10 _ _ _ N-RC | 10/20/40                            | 0.709       | 18.00 | 0.787       | 20.00 |
| _ RPN11 _ _ _ N-RC | 11/22                               | 0.787       | 20.00 | 0.866       | 22.00 |
| _ RPN12 _ _ _ N-RC | 12/24/44                            | 0.866       | 22.00 | 0.945       | 24.00 |
| _ RPN13 _ _ _ N-RC | 13/26                               | 0.945       | 24.00 | 1.024       | 26.00 |
| _ RPN14 _ _ _ N-RC | 14/28                               | 1.024       | 26.00 | 1.102       | 28.00 |
| _ RPN15 _ _ _ N-RC | 15/30/60                            | 1.102       | 28.00 | 1.181       | 30.00 |
| _ RPN16 _ _ _ N-RC | 16/32                               | 1.181       | 30.00 | 1.260       | 32.00 |
| _ RPN17 _ _ _ N-RC | 17/34                               | 1.260       | 32.00 | 1.339       | 34.00 |
| _ RPN18 _ _ _ N-RC | 18/36/72                            | 1.339       | 34.00 | 1.417       | 36.00 |
| _ RPN19 _ _ _ N-RC | 19/38                               | 1.417       | 36.00 | 1.496       | 38.00 |
| _ RPN20 _ _ _ N-RC | 20/40                               | 1.496       | 38.00 | 1.575       | 40.00 |
| _ RPN21 _ _ _ N-RC | 21/42/84                            | 1.575       | 40.00 | 1.654       | 42.00 |
| _ RPN22 _ _ _ N-RC | 22/44                               | 1.654       | 42.00 | 1.732       | 44.00 |
| _ RPN23 _ _ _ N-RC | 23/46                               | 1.732       | 44.00 | 1.811       | 46.00 |
| _ RPN24 _ _ _ N-RC | 24/48/96                            | 1.811       | 46.00 | 1.890       | 48.00 |
| _ RPN25 _ _ _ N-RC | 25/50                               | 1.890       | 48.00 | 1.969       | 50.00 |
| _ RPN26 _ _ _ N-RC | 26/52                               | 1.969       | 50.00 | 2.047       | 52.00 |
| _ RPN27 _ _ _ N-RC | 27/54                               | 2.047       | 52.00 | 2.126       | 54.00 |
| _ RPN28 _ _ _ N-RC | 28/56                               | 2.126       | 54.00 | 2.205       | 56.00 |
| _ RPN29 _ _ _ N-RC | 29/58                               | 2.205       | 56.00 | 2.283       | 58.00 |
| _ RPN30 _ _ _ N-RC | 30/60/120                           | 2.283       | 58.00 | 2.362       | 60.00 |
| _ RPN31 _ _ _ N-RC | 31/62                               | 2.362       | 60.00 | 2.441       | 62.00 |
| _ RPN32 _ _ _ N-RC | 32/64                               | 2.441       | 62.00 | 2.520       | 64.00 |
| _ RPN33 _ _ _ N-RC | 33/66                               | 2.520       | 64.00 | 2.598       | 66.00 |
| _ RPN34 _ _ _ N-RC | 34/68                               | 2.598       | 66.00 | 2.677       | 68.00 |
| _ RPN35 _ _ _ N-RC | 35/70                               | 2.677       | 68.00 | 2.756       | 70.00 |
| _ RPN36 _ _ _ N-RC | 36/72                               | 2.756       | 70.00 | 2.835       | 72.00 |
| _ RPN37 _ _ _ N-RC | 37/74                               | 2.835       | 72.00 | 2.913       | 74.00 |
| _ RPN38 _ _ _ N-RC | 38/76                               | 2.913       | 74.00 | 2.992       | 76.00 |
| _ RPN39 _ _ _ N-RC | 39/78                               | 2.992       | 76.00 | 3.071       | 78.00 |
| _ RPN40 _ _ _ N-RC | 40/80                               | 3.071       | 78.00 | 3.150       | 80.00 |



## Sullins Headers

MICROPLASTICS  
**SULLINS**

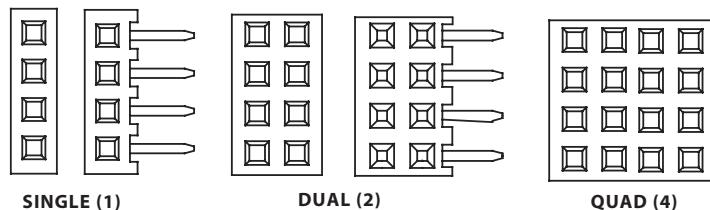
### .079"[2mm] Contact Centers, Female Header Dip Solder/Right Angle/SMT

## SPECIFICATIONS

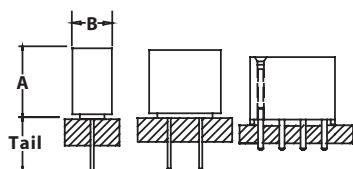
- 1 amp current rating per contact
- UL Flammability Rating: 94V-O
- Insulator: Black Thermoplastic Polyester/Nylon 6-T
- Contact Material: Phosphor Bronze



## READOUT

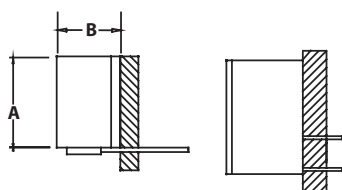


## TERMINATION TYPE



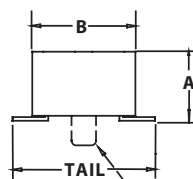
STRAIGHT

| P/N CODE | ROWS | TERM     | A           | B           | TAIL        |
|----------|------|----------|-------------|-------------|-------------|
| BFC      | 1    | STRAIGHT | .170 [4.30] | .094 [2.40] | .094 [2.40] |
| AFC      | 2    | STRAIGHT | .170 [4.30] | .157 [4.00] | .094 [2.40] |
| AFE      | 2    | STRAIGHT | 1.70 [4.30] | .157 [4.00] | .110 [2.80] |
| EFC      | 4    | STRAIGHT | .248 [6.30] | .315 [8.00] | .094 [2.40] |



RIGHT ANGLE

| P/N CODE | ROWS | TERM        | A           | B           | TAIL        |
|----------|------|-------------|-------------|-------------|-------------|
| FGG      | 1    | RIGHT ANGLE | .169 [4.30] | .110 [2.80] | .122 [3.10] |
| FJF      | 2    | RIGHT ANGLE | .285 [7.20] | .191 [4.85] | .118 [3.00] |



SMT

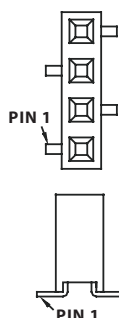
| P/N CODE | ROWS            | TERM | A           | B           | TAIL        |
|----------|-----------------|------|-------------|-------------|-------------|
| BFL      | 1               | SMT  | .181 [4.60] | .094 [2.40] | .157 [4.00] |
| GFN      | 2               | SMT  | .110 [2.80] | .165 [4.20] | .228 [5.80] |
| GHN      | Replaced by GFN |      |             |             |             |
| FFK      | 2               | SMT  | .173 [4.40] | .157 [4.00] | .228 [5.80] |

Refer to Mounting Style

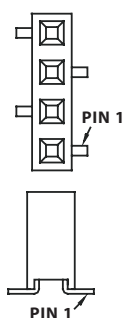
## MOUNTING STYLE



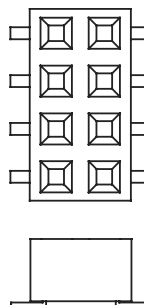
No Mounting-Standard (N)



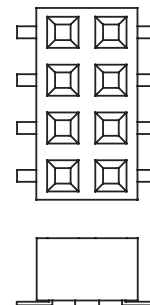
One Row SMT, Pin 1 Left (C)



One Row SMT, Pin 1 Right (D)



Two Row SMT, Without Guide Posts (S)



Two Row SMT, With Guide Post (P)

**.079" [2mm] Contact Centers, Female Header  
Dip Solder/Right Angle/SMT**

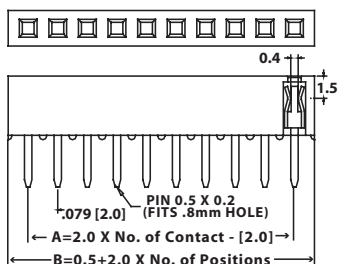


**PART NUMBER CODING**

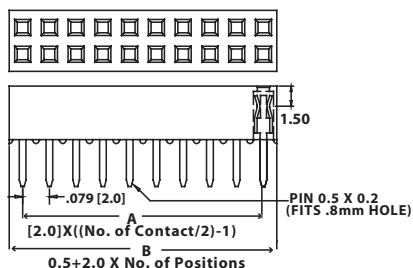
|                                                                                                                                    |                                                                                                                                                                  |                                              |                                                                        |                                                                                     |                                                                                                    |                                                            |                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PLASTIC HOUSING</b><br>PP = Thermoplastic/Phosphor Bronze (Thru Hole Only)<br>NP = Nylon 6-T/Phosphor Bronze (SMT or Thru Hole) | <b>CONTACT FINISH - RoHS Compliant</b><br>Contact<br>P = Gold Flash<br>R = .000020 GOLD<br>Termination<br>Gold Flash (For 1 and 2 Row)<br>.00010 TIN (For 4 row) | <b>CONTACT CENTERS</b><br>N = .079" [2.00mm] | <b>NUMBER OF POSITIONS</b><br>01 to 40<br>(e.g. 40 Dual = 80 Contacts) | <b>NUMBER OF ROWS (Opposite Page)</b><br>1 = One Row<br>2 = Two Row<br>4 = Four Row | <b>PP</b><br><b>P</b><br><b>N</b><br><b>40</b><br><b>1</b><br><b>BFC</b><br><b>N</b><br><b>-RC</b> | <b>RoHS COMPLIANT</b><br>Consult Factory For Modifications | <b>MOUNTING STYLE</b><br>N = No Mounting<br>C = SMT, Single row female, pin 1 Left<br>D = SMT, Single row female, pin 1 Right<br>P = Surface mount with guide pins<br>S = Surface mount without guide pins | <b>TERMINATION TYPE (Opposite Page)</b><br>BFC = Thru Hole Top Entry<br>AFC = Thru Hole Top Entry<br>AFE = Thru Hole Top Entry/Closed Bottom<br>EFC = Thru Hole Top Entry<br>FGG = R/A Top Entry<br>FJF = R/A Top Entry<br>BFL = SMT Bottom Entry (Nylon 6-T only)<br>FFK = SMT Bottom Entry (Nylon 6-T only)<br>GFN = SMT Top/Bottom Entry (Nylon 6-T only)<br>GHN = SMT Replaced by GFN |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**DIMENSIONS**

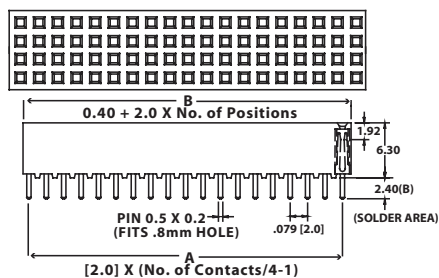
Dimensions in [ ] are in millimeters, all others are in inches.



**SINGLE READOUT,  
STRAIGHT TAIL SHOWN**



**DUAL READOUT,  
STRAIGHT TAIL SHOWN**



**QUAD READOUT,  
STRAIGHT TAIL SHOWN**

| PART NUMBER | NUMBER OF CONTACTS<br>SINGLE/DUAL/<br>QUAD | CENTER TO CENTER LENGTH<br>[A] |       | OVERALL LENGTH<br>[B] |       |
|-------------|--------------------------------------------|--------------------------------|-------|-----------------------|-------|
|             |                                            | INCHES                         | [MM]  | INCHES                | [MM]  |
| PPN01 N-RC  | 01/02                                      |                                |       | 0.079                 | 2.00  |
| PPN02 N-RC  | 02/04                                      | 0.079                          | 2.00  | 0.157                 | 4.00  |
| PPN03 N-RC  | 03/06                                      | 0.157                          | 4.00  | 0.236                 | 6.00  |
| PPN04 N-RC  | 04/08                                      | 0.236                          | 6.00  | 0.315                 | 8.00  |
| PPN05 N-RC  | 05/10                                      | 0.315                          | 8.00  | 0.394                 | 10.00 |
| PPN06 N-RC  | 06/12/24                                   | 0.394                          | 10.00 | 0.472                 | 12.00 |
| PPN07 N-RC  | 07/14                                      | 0.472                          | 12.00 | 0.551                 | 14.00 |
| PPN08 N-RC  | 08/16                                      | 0.551                          | 14.00 | 0.630                 | 16.00 |
| PPN09 N-RC  | 09/18                                      | 0.630                          | 16.00 | 0.709                 | 18.00 |
| PPN10 N-RC  | 10/20/40                                   | 0.709                          | 18.00 | 0.787                 | 20.00 |
| PPN11 N-RC  | 11/22                                      | 0.787                          | 20.00 | 0.866                 | 22.00 |
| PPN12 N-RC  | 12/24/44                                   | 0.866                          | 22.00 | 0.945                 | 24.00 |
| PPN13 N-RC  | 13/26                                      | 0.945                          | 24.00 | 1.024                 | 26.00 |
| PPN14 N-RC  | 14/28                                      | 1.024                          | 26.00 | 1.102                 | 28.00 |
| PPN15 N-RC  | 15/30/60                                   | 1.102                          | 28.00 | 1.181                 | 30.00 |
| PPN16 N-RC  | 16/32                                      | 1.181                          | 30.00 | 1.260                 | 32.00 |
| PPN17 N-RC  | 17/34                                      | 1.260                          | 32.00 | 1.339                 | 34.00 |
| PPN18 N-RC  | 18/36                                      | 1.339                          | 34.00 | 1.417                 | 36.00 |
| PPN19 N-RC  | 19/38                                      | 1.417                          | 36.00 | 1.496                 | 38.00 |
| PPN20 N-RC  | 20/40                                      | 1.496                          | 38.00 | 1.575                 | 40.00 |
| PPN21 N-RC  | 21/42/84                                   | 1.575                          | 40.00 | 1.654                 | 42.00 |
| PPN22 N-RC  | 22/44                                      | 1.654                          | 42.00 | 1.732                 | 44.00 |
| PPN23 N-RC  | 23/46                                      | 1.732                          | 44.00 | 1.811                 | 46.00 |
| PPN24 N-RC  | 24/48/96                                   | 1.811                          | 46.00 | 1.890                 | 48.00 |
| PPN25 N-RC  | 25/50                                      | 1.890                          | 48.00 | 1.969                 | 50.00 |
| PPN26 N-RC  | 26/52                                      | 1.969                          | 50.00 | 2.047                 | 52.00 |
| PPN27 N-RC  | 27/54                                      | 2.047                          | 52.00 | 2.126                 | 54.00 |
| PPN28 N-RC  | 28/56                                      | 2.126                          | 54.00 | 2.205                 | 56.00 |
| PPN29 N-RC  | 29/58                                      | 2.205                          | 56.00 | 2.283                 | 58.00 |
| PPN30 N-RC  | 30/60/120                                  | 2.283                          | 58.00 | 2.362                 | 60.00 |
| PPN31 N-RC  | 31/62                                      | 2.362                          | 60.00 | 2.441                 | 62.00 |
| PPN32 N-RC  | 32/64                                      | 2.441                          | 62.00 | 2.520                 | 64.00 |
| PPN33 N-RC  | 33/66                                      | 2.520                          | 64.00 | 2.598                 | 66.00 |
| PPN34 N-RC  | 34/68                                      | 2.598                          | 66.00 | 2.677                 | 68.00 |
| PPN35 N-RC  | 35/70                                      | 2.677                          | 68.00 | 2.756                 | 70.00 |
| PPN36 N-RC  | 36/72                                      | 2.756                          | 70.00 | 2.835                 | 72.00 |
| PPN37 N-RC  | 37/74                                      | 2.835                          | 72.00 | 2.913                 | 74.00 |
| PPN38 N-RC  | 38/76                                      | 2.913                          | 74.00 | 2.992                 | 76.00 |
| PPN39 N-RC  | 39/78                                      | 2.992                          | 76.00 | 3.071                 | 78.00 |
| PPN40 N-RC  | 40/80                                      | 3.071                          | 78.00 | 3.150                 | 80.00 |



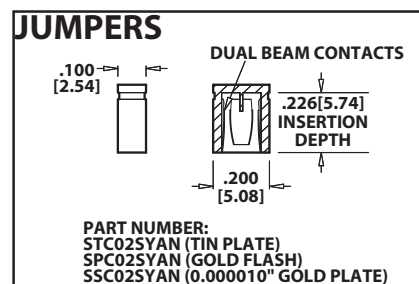
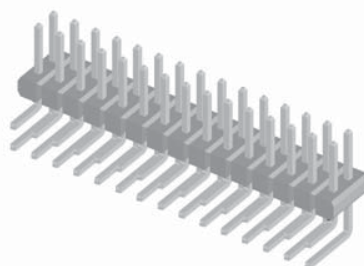
## Sullins Headers

**MICROPLASTICS**  
**SULLINS**

### .100"[2.54mm] Contact Centers, Male Breakaway Header Dip Solder/Right Angle/SMT

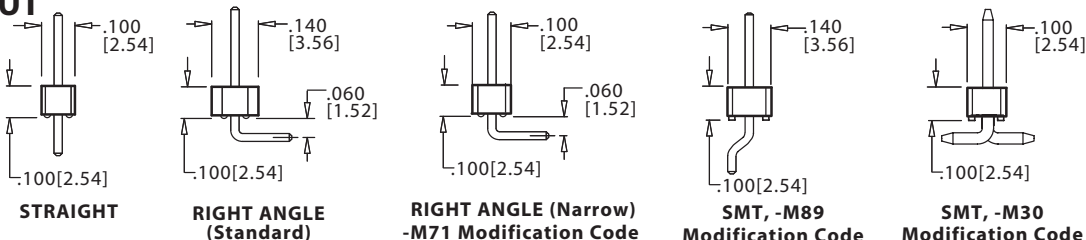
#### SPECIFICATIONS

- 3 amp current rating per contact
- UL Flammability Rating: 94V-O
- Insulator: Polyester, PA9T
- Contact Material: Copper Alloy

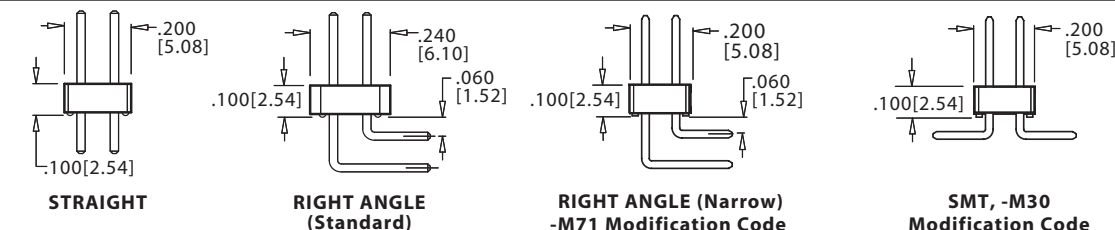


#### READOUT

##### SINGLE ROW (S)

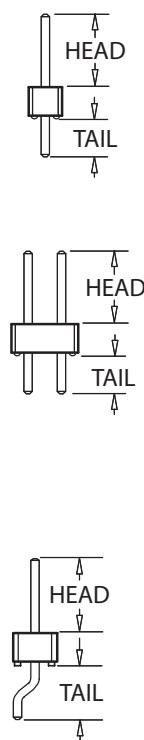


##### DUAL ROW (D)



#### TERMINATION TYPE

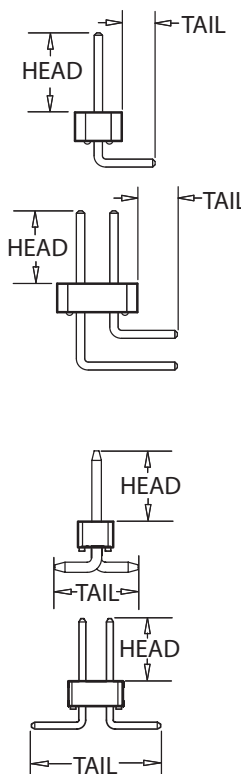
##### STRAIGHT TERMINATIONS



| P/N CODE | HEAD DIMENSION | TAIL DIMENSION |
|----------|----------------|----------------|
| AA       | .230 [5.84]    | .120 [3.05]    |
| AB       | .230 [5.84]    | .230 [5.84]    |
| AC       | .230 [5.84]    | .320 [8.13]    |
| AD       | .230 [5.84]    | .420 [10.67]   |
| AE       | .230 [5.84]    | .520 [13.21]   |
| AF       | .230 [5.84]    | .620 [15.75]   |
| AG       | .230 [5.84]    | .720 [18.29]   |
| AH       | .230 [5.84]    | .820 [20.83]   |
|          |                |                |
| FA       | .318 [8.08]    | .120 [3.05]    |
| FB       | .318 [8.08]    | .220 [5.59]    |
| FC       | .318 [8.08]    | .320 [8.13]    |
| FD       | .318 [8.08]    | .420 [10.67]   |
| FE       | .318 [8.08]    | .520 [13.21]   |
|          |                |                |
| ZA       | .120 [3.05]    | .120 [3.05]    |
| ZC       | .120 [3.05]    | .260 [6.60]    |
| ZD       | .120 [3.05]    | .610 [15.49]   |

##### SMT TERMINATIONS, Single Row with -M89 Modification Code, ('G' Material Only)

| P/N CODE | HEAD DIMENSION | TAIL DIMENSION |
|----------|----------------|----------------|
| BS       | .230 [5.84]    | .180 [4.57]    |
| GS       | .318 [8.08]    | .180 [4.57]    |



##### RIGHT ANGLE BEND TERMINATIONS

| P/N CODE | HEAD DIMENSION | TAIL DIMENSION | -M71 TAIL DIMENSION |
|----------|----------------|----------------|---------------------|
| BA       | .230 [5.84]    | .100 [2.54]    | .120 [3.05]         |
| BB       | .230 [5.84]    | .200 [5.08]    | .220 [5.59]         |
| BC       | .230 [5.84]    | .300 [7.62]    | .320 [8.13]         |
| BD       | .230 [5.84]    | .400 [10.16]   | .420 [10.67]        |
| BE       | .230 [5.84]    | .500 [12.70]   | .520 [13.21]        |
| BF**     | .230 [5.84]    | .600 [15.24]   |                     |
| BG**     | .230 [5.84]    | .700 [17.78]   |                     |
|          |                |                |                     |
| GA       | .318 [8.08]    | .100 [2.54]    | .120 [3.05]         |
| GB       | .318 [8.08]    | .200 [5.08]    | .220 [5.59]         |
| GC**     | .318 [8.08]    | .300 [7.62]    |                     |
| GD**     | .318 [8.08]    | .400 [10.16]   |                     |

\*\*Consult Factory for availability in Dual Readout.

##### SMT TERMINATIONS, Single or Dual Row with -M30 Modification Code, ('G' Material Only)

| P/N CODE | HEAD DIMENSION | SINGLE ROW TAIL DIMENSION | DUAL ROW TAIL DIMENSION |
|----------|----------------|---------------------------|-------------------------|
| AB       | .230 [5.84]    | .320 [8.13]               | .420 [10.67]            |
| FB       | .318 [8.08]    | .300 [7.62]               | .400 [10.16]            |

**.100"[2.54mm] Contact Centers, Male Breakaway Header  
Dip Solder/Right Angle/SMT**

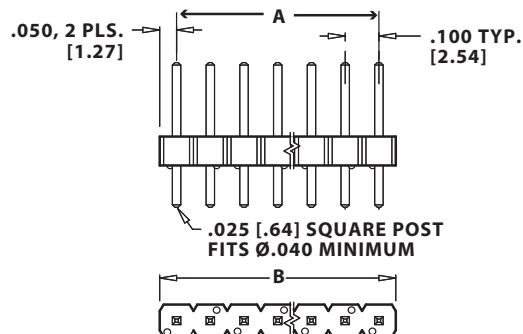


**PART NUMBER CODING**

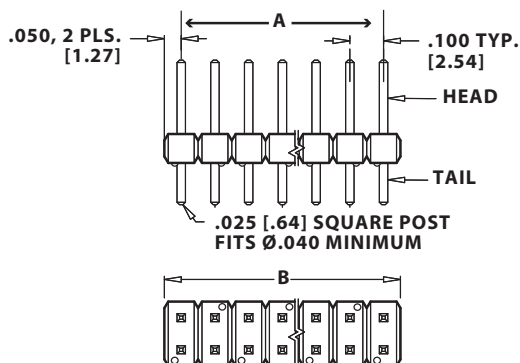
| SERIES                                                                                                                | P | B | C | 36 | D | AA | N | - Mxxx | MODIFICATION CODE (Consult Factory)                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------|---|---|---|----|---|----|---|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P = PBT/Phosphor Bronze<br>Operating Temperature: -65°C to + 125°C<br>Processing Temperature: 260° for 10 sec. Max.   |   |   |   |    |   |    |   |        | OMIT FOR STANDARD<br>-M30 = SMT ('G' Material Only)<br>-M89 = SMT ('G' Material Only)<br>-M71 = Narrow Body (Right Angle Only)                                                                                                                                                                                                                                                                      |
| G = PA9T/Phosphor Bronze<br>Operating Temperature: -65°C to + 125°C<br>Processing Temperature: 260° for 120 sec. Max. |   |   |   |    |   |    |   |        | <b>MOUNTING STYLE</b><br>N = No Mounting<br>R = Retent Lead (Consult Factory)                                                                                                                                                                                                                                                                                                                       |
| <b>CONTACT FINISH - RoHS Compliant</b><br>All platings are Lead Free and have .000050" Nickel underplate              |   |   |   |    |   |    |   |        | <b>TERMINATION TYPE (Opposite Page)</b>                                                                                                                                                                                                                                                                                                                                                             |
| <b>Contact Surface</b><br>B = .000010" Gold<br>C = .000030" Gold<br>E = .000010" Pure Tin, Matte                      |   |   |   |    |   |    |   |        | <b>Straight</b> = AA, AB, AC, AD, AE, AF, AG, AH,<br>FA, FB, FC, FD, FE, ZA, ZC, ZD<br><b>Right Angle</b> = BA, BB, BC, BD, BE, BF, BG,<br>GA, GB, GC, GD, GS<br><b>Right Angle with -M71 Modification Code</b><br>= BA, BB, BC, BD, BE, GA, GB<br><b>SMT with -M89 Modification Code</b><br>= BS, GS ('G' Material Only)<br><b>SMT with -M30 Modification Code</b><br>= AB, FB ('G' Material Only) |
| <b>Termination</b><br>.000100" Pure Tin, Matte<br><b>Overall Plating</b><br>.000100" Pure Tin, Matte                  |   |   |   |    |   |    |   |        |                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>CONTACT CENTERS</b><br>C = .100" [2.54mm]                                                                          |   |   |   |    |   |    |   |        | <b>READOUT (Opposite Page)</b><br>S = Single<br>D = Dual                                                                                                                                                                                                                                                                                                                                            |
| <b>NUMBER OF POSITIONS</b><br>01 Thru 36 (eg. 32 Dual = 64 Contacts)                                                  |   |   |   |    |   |    |   |        |                                                                                                                                                                                                                                                                                                                                                                                                     |

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



**SINGLE READOUT,  
STRAIGHT TAIL SHOWN**



**DUAL READOUT,  
STRAIGHT TAIL SHOWN**

| PART NUMBER   | NUMBER OF CONTACTS<br>SINGLE/DUAL | A      |       | B      |       |
|---------------|-----------------------------------|--------|-------|--------|-------|
|               |                                   | Inches | [MM]  | Inches | [MM]  |
| P _ C01 _ _ N | 01/02                             | N/A    | N/A   | 0.100  | 2.54  |
| P _ C02 _ _ N | 02/04                             | 0.100  | 2.54  | 0.200  | 5.08  |
| P _ C03 _ _ N | 03/06                             | 0.200  | 5.08  | 0.300  | 7.62  |
| P _ C04 _ _ N | 04/08                             | 0.300  | 7.62  | 0.400  | 10.16 |
| P _ C05 _ _ N | 05/10                             | 0.400  | 10.16 | 0.500  | 12.70 |
| P _ C06 _ _ N | 06/12                             | 0.500  | 12.70 | 0.600  | 15.24 |
| P _ C07 _ _ N | 07/14                             | 0.600  | 15.24 | 0.700  | 17.78 |
| P _ C08 _ _ N | 08/16                             | 0.700  | 17.78 | 0.800  | 20.32 |
| P _ C09 _ _ N | 09/18                             | 0.800  | 20.32 | 0.900  | 22.86 |
| P _ C10 _ _ N | 10/20                             | 0.900  | 22.86 | 1.000  | 25.40 |
| P _ C11 _ _ N | 11/22                             | 1.000  | 25.40 | 1.100  | 27.94 |
| P _ C12 _ _ N | 12/24                             | 1.100  | 27.94 | 1.200  | 30.48 |
| P _ C13 _ _ N | 13/26                             | 1.200  | 30.48 | 1.300  | 33.02 |
| P _ C14 _ _ N | 14/28                             | 1.300  | 33.02 | 1.400  | 35.56 |
| P _ C15 _ _ N | 15/30                             | 1.400  | 35.56 | 1.500  | 38.10 |
| P _ C16 _ _ N | 16/32                             | 1.500  | 38.10 | 1.600  | 40.64 |
| P _ C17 _ _ N | 17/34                             | 1.600  | 40.64 | 1.700  | 43.18 |
| P _ C18 _ _ N | 18/36                             | 1.700  | 43.18 | 1.800  | 45.72 |
| P _ C19 _ _ N | 19/38                             | 1.800  | 45.72 | 1.900  | 48.26 |
| P _ C20 _ _ N | 20/40                             | 1.900  | 48.26 | 2.000  | 50.80 |
| P _ C21 _ _ N | 21/42                             | 2.000  | 50.80 | 2.100  | 53.34 |
| P _ C22 _ _ N | 22/44                             | 2.100  | 53.34 | 2.200  | 55.88 |
| P _ C23 _ _ N | 23/46                             | 2.200  | 55.88 | 2.300  | 58.42 |
| P _ C24 _ _ N | 24/48                             | 2.300  | 58.42 | 2.400  | 60.96 |
| P _ C25 _ _ N | 25/50                             | 2.400  | 60.96 | 2.500  | 63.50 |
| P _ C26 _ _ N | 26/52                             | 2.500  | 63.50 | 2.600  | 66.04 |
| P _ C27 _ _ N | 27/54                             | 2.600  | 66.04 | 2.700  | 68.58 |
| P _ C28 _ _ N | 28/56                             | 2.700  | 68.58 | 2.800  | 71.12 |
| P _ C29 _ _ N | 29/58                             | 2.800  | 71.12 | 2.900  | 73.66 |
| P _ C30 _ _ N | 30/60                             | 2.900  | 73.66 | 3.000  | 76.20 |
| P _ C31 _ _ N | 31/62                             | 3.000  | 76.20 | 3.100  | 78.74 |
| P _ C32 _ _ N | 32/64                             | 3.100  | 78.74 | 3.200  | 81.28 |
| P _ C33 _ _ N | 33/66                             | 3.200  | 81.28 | 3.300  | 83.82 |
| P _ C34 _ _ N | 34/68                             | 3.300  | 83.82 | 3.400  | 86.36 |
| P _ C35 _ _ N | 35/70                             | 3.400  | 86.36 | 3.500  | 88.90 |
| P _ C36 _ _ N | 36/72                             | 3.500  | 88.90 | 3.600  | 91.44 |



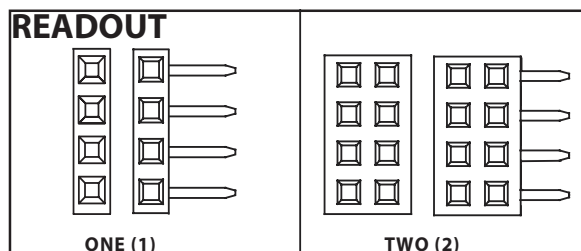
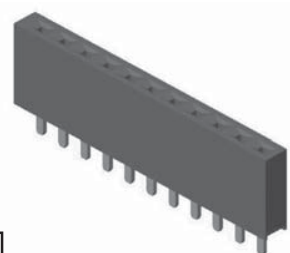
## Sullins Headers

MICROPLASTICS  
**SULLINS**

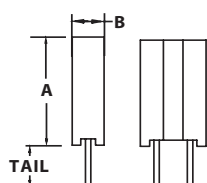
### .100"[2.54mm] Contact Centers, Female Header Dip Solder/Right Angle/SMT

#### SPECIFICATIONS

- 3 amp current rating per contact
- UL Flammability Rating : 94V-O
- Insulator : Nylon 6-T/Polyester
- Contact Material : Phosphor Bronze

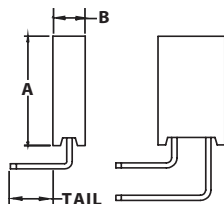


#### TERMINATION TYPE



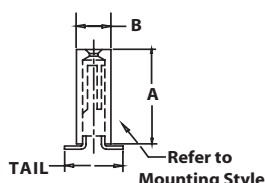
**STRAIGHT**

| P/N CODE | ROWS | TERM     | A           | B           | TAIL        |
|----------|------|----------|-------------|-------------|-------------|
| LFB      | 1    | STRAIGHT | .334 [8.50] | .094 [2.50] | .125 [3.20] |
|          | 2    | STRAIGHT | .334 [8.50] | .197 [5.00] | .125 [3.20] |



**RIGHT ANGLE**

| P/N CODE | ROWS | TERM        | A           | B            | TAIL        |
|----------|------|-------------|-------------|--------------|-------------|
| LGB      | 1    | RIGHT ANGLE | .334 [8.50] | 0.094 [2.40] | .125 [3.15] |
| LJB      | 2    | RIGHT ANGLE | .334 [8.50] | 0.197 [5.00] | .125 [3.15] |



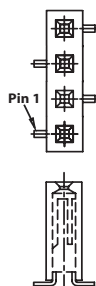
**SMT**

| P/N CODE | ROWS | TERM | ENTRY     | A           | B           | TAIL        |
|----------|------|------|-----------|-------------|-------------|-------------|
| KFX      | 1    | SMT  | TOP ENTRY | .279 [7.10] | .098 [2.50] | .169 [4.30] |
| KFM      | 2    | SMT  | TOP ENTRY | .279 [7.10] | .197 [5.00] | .265 [6.80] |

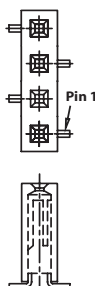
#### MOUNTING STYLE



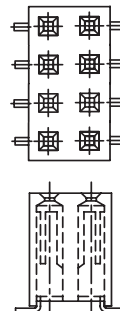
**No Mounting  
Standard (N)**



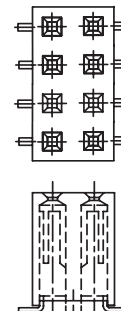
**One Row SMT,  
Pin 1 Left (C)**



**One Row SMT,  
Pin 1 Right (D)**



**Two Row SMT,  
Without Guide Post (S)**

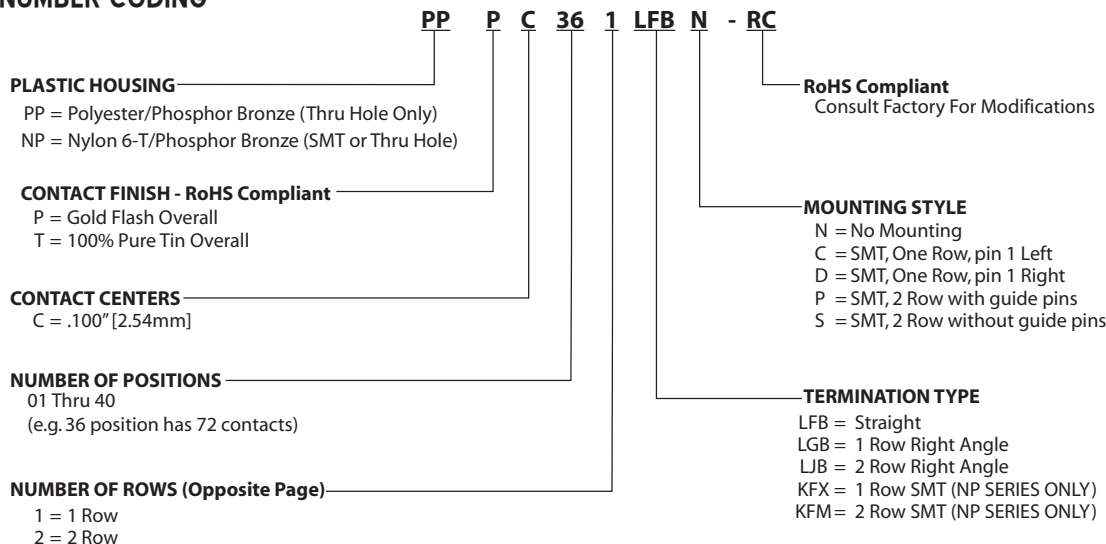


**Two Row SMT,  
With Guide Post (P)**

**.100"[2.54mm] Contact Centers, Female Header  
Dip Solder/Right Angle/SMT**

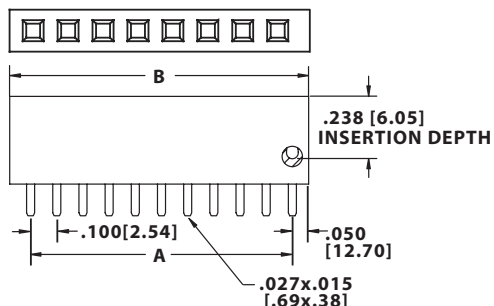


**PART NUMBER CODING**

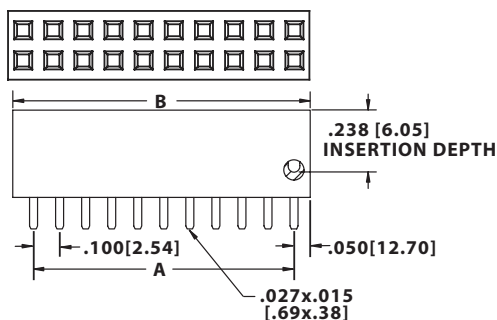


**DIMENSIONS**

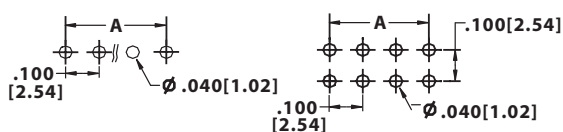
Dimensions in [ ] are in millimeters, all others are in inches.



**SINGLE READOUT,  
STRAIGHT TAIL SHOWN**



**DUAL READOUT,  
STRAIGHT TAIL SHOWN**



**Recommended P.C.Board  
Hole Layout**

| Number of Positions | Number of Contacts |       | Dimension A |       | Dimension B |        |
|---------------------|--------------------|-------|-------------|-------|-------------|--------|
|                     | 1 Row              | 2 Row | Inches      | [mm]  | Inches      | [mm]   |
| 01                  | 1                  | 2     |             |       |             |        |
| 02                  | 2                  | 4     | .100        | 2.54  | .220        | 5.58   |
| 03                  | 3                  | 6     | .200        | 5.08  | .320        | 8.12   |
| 04                  | 4                  | 8     | .300        | 7.62  | .420        | 10.66  |
| 05                  | 5                  | 10    | .400        | 10.16 | .520        | 13.20  |
| 06                  | 6                  | 12    | .500        | 12.70 | .620        | 15.74  |
| 07                  | 7                  | 14    | .600        | 15.24 | .720        | 18.28  |
| 08                  | 8                  | 16    | .700        | 17.78 | .820        | 20.82  |
| 09                  | 9                  | 18    | .800        | 20.32 | .920        | 23.36  |
| 10                  | 10                 | 20    | .900        | 22.86 | 1.020       | 25.90  |
| 11                  | 11                 | 22    | 1.000       | 25.40 | 1.120       | 28.44  |
| 12                  | 12                 | 24    | 1.100       | 27.94 | 1.220       | 30.98  |
| 13                  | 13                 | 26    | 1.200       | 30.48 | 1.320       | 33.52  |
| 14                  | 14                 | 28    | 1.300       | 33.02 | 1.420       | 36.06  |
| 15                  | 15                 | 30    | 1.400       | 35.56 | 1.520       | 38.60  |
| 16                  | 16                 | 32    | 1.500       | 38.10 | 1.620       | 41.14  |
| 17                  | 17                 | 34    | 1.600       | 40.64 | 1.720       | 43.68  |
| 18                  | 18                 | 36    | 1.700       | 43.18 | 1.820       | 46.22  |
| 19                  | 19                 | 38    | 1.800       | 45.72 | 1.920       | 48.76  |
| 20                  | 20                 | 40    | 1.900       | 48.26 | 2.020       | 51.30  |
| 21                  | 21                 | 42    | 2.000       | 50.80 | 2.120       | 53.84  |
| 22                  | 22                 | 44    | 2.100       | 53.34 | 2.220       | 56.38  |
| 23                  | 23                 | 46    | 2.200       | 55.88 | 2.320       | 58.92  |
| 24                  | 24                 | 48    | 2.300       | 58.42 | 2.420       | 61.46  |
| 25                  | 25                 | 50    | 2.400       | 60.96 | 2.520       | 64.00  |
| 26                  | 26                 | 52    | 2.500       | 63.50 | 2.620       | 66.54  |
| 27                  | 27                 | 54    | 2.600       | 66.04 | 2.720       | 69.08  |
| 28                  | 28                 | 56    | 2.700       | 68.58 | 2.820       | 71.62  |
| 29                  | 29                 | 58    | 2.800       | 71.12 | 2.920       | 74.16  |
| 30                  | 30                 | 60    | 2.900       | 73.66 | 3.020       | 76.70  |
| 31                  | 31                 | 62    | 3.000       | 76.20 | 3.120       | 79.24  |
| 32                  | 32                 | 64    | 3.100       | 78.74 | 3.220       | 81.78  |
| 33                  | 33                 | 66    | 3.200       | 81.28 | 3.320       | 84.32  |
| 34                  | 34                 | 68    | 3.300       | 83.82 | 3.420       | 86.86  |
| 35                  | 35                 | 70    | 3.400       | 86.36 | 3.520       | 89.40  |
| 36                  | 36                 | 72    | 3.500       | 88.90 | 3.620       | 91.94  |
| 37                  | 37                 | 74    | 3.600       | 91.44 | 3.720       | 94.48  |
| 38                  | 38                 | 76    | 3.700       | 93.98 | 3.820       | 97.02  |
| 39                  | 39                 | 78    | 3.800       | 96.52 | 3.920       | 99.56  |
| 40                  | 40                 | 80    | 3.900       | 99.06 | 4.020       | 102.10 |



## Micro Plastics Edgards



### GENERAL SPECIFICATIONS

#### RoHS COMPLIANT



**RoHS**  
COMPLIANT

All parts are currently manufactured with recommended materials to meet RoHS standards. All contacts have 50u" of nickel underplating, and a large selection of plating options: Pure tin matte, overall gold, or selective gold plating. For complete part number information or operating/processing temperature parameters, visit the RoHS section of our website, or refer to page 83 of this catalog.

#### MATERIALS

**To determine Assembly Operating Temperature, take the lower of two temperatures**

|                   |             |                                                   | <b>Operating Temperature</b> | <b>Processing Temperature</b> |
|-------------------|-------------|---------------------------------------------------|------------------------------|-------------------------------|
| <b>Insulator:</b> |             |                                                   |                              |                               |
| Standard          | PBT, Valox* | Glass filled Thermoplastic Polyester              | -65°C to +130°C              | 260°C / 10 Seconds            |
| Special           | PPS, Ryton* | Glass/Mineral filled Polyphenylene Sulfide, Green | -65°C to +220°C              | 260°C / 120 Seconds           |
| Special           | PPS, Ryton* | Glass filled Polyphenylene Sulfide, Brown         | -65°C to +200°C              | 260°C / 120 Seconds           |
| Special           | PA9T        | High Temperature Polyamide                        | -65°C to +150°C              | 260°C / 120 Seconds           |
| Special           | Peek        | Glass filled Polyetheretherketone                 | -65°C to +250°C              |                               |

#### Contacts:

|          |                                                   |                 |
|----------|---------------------------------------------------|-----------------|
| Standard | Phosphor Bronze (Available in All Contact Styles) | -65°C to +125°C |
| Special  | Beryllium Copper (Consult Factory)                | -65°C to +150°C |
| Special  | Spinodal** (Consult Factory)                      | -65°C to +200°C |
| Special  | Beryllium Nickel (Consult Factory)                | -65°C to +300°C |

#### Plating:

Gold and/or Tin over .000050" Nickel Underplate, Lead Free

**UL/CUL File Number:** E64287 Section 2

**Cage Code:** 31223

\* Or equivalent.

\*\* Consult factory for special soldering guidelines.

#### MECHANICAL

Board Insertion Force 16 oz Maximum per contact pair using .062"[1.58mm] thick steel test blade

Board Withdrawal Force 1 oz Minimum per contact pair using .062"[1.58mm] thick steel test blade

**Special Insertion/Withdrawal forces available upon request**

#### ELECTRICAL PERFORMANCE (Per Mil-C-21097C)

Insulation Resistance: 5,000 Mega Ohm

Dielectric Withstanding Voltage

|                  |               |               |               |               |
|------------------|---------------|---------------|---------------|---------------|
| Contact Centers: | .100"[2.54mm] | .125"[3.18mm] | .150"[3.81mm] | .156"[3.96mm] |
| Voltage:         | 600 VDC       | 800 VDC       | 1500 VDC      | 1800 VDC      |
|                  | 750 VAC       | 750 VAC       | 900 VAC       | 950 VAC       |

Current Rating: 3 to 5 amperes (amps) per contact

Voltage Drop: 30 Milli volt at rated current

Contact Resistance: 30 Milli ohm maximum at rated current

#### Registered Trademarks

Sabic Innovative Plastics: Valox

Gardner-Denver Co.: Wire Wrap

Phillips 66: Ryton

Ametek: Spinodal

RTP Compounder: PEEK

Underwriters Labs: UL

Sullins Electronics: Sullins

Sullins Electronics: Zero Lead Time



**MP - 0 100 - 22 - D W - 5 xxx**

## PLATING - RoHS Compliant

ALL PLATINGS ARE LEAD FREE AND HAVE  
.000050" NICKEL UNDERPLATE

| Contact Surface                                      | Termination             |
|------------------------------------------------------|-------------------------|
| *MPSL = .000010" Gold                                | .000100" Pure Tin Matte |
| *EMPSL = .000010" Gold                               | .000100" Pure Tin Matte |
| *MPL = .000100" Overall Pure Tin, Matte              |                         |
| *EMPL = .000100" Overall Pure Tin, Matte             |                         |
| MP = .000010" Overall Gold                           |                         |
| EMP = .000010" Overall Gold                          |                         |
| MPP = Spinodal Contact Material (Overall Gold Only)  |                         |
| EMPP = Spinodal Contact Material (Overall Gold Only) |                         |

### \* Requires 'K' Modification Code

Platings that start with 'E' are for Economy Eyelet Only  
Other Plating and thicknesses available upon request.

## INSULATOR MATERIAL

All Materials are U.L. Approved 94V-0

- 0 = PBT, Blue
- 1 = PPS, Brown
- 2 = PBT, Green
- 3 = PBT, Black
- 4 = PA9T, Black
- 5 = PPS, Black
- 6 = PPS, Green
- 7 = PPS, Brown
- 8 = Peek, Natural

## CONTACT CENTERS

- 100 = .100" [2.54mm]
- 125 = .125" [3.18mm]
- 150 = .150" [3.84mm]
- 156 = .156" [3.96mm]

## NUMBER OF POSITIONS

02 - 70 Contacts Per Row

## READOUT

D = Dual Row

## TERMINATION TYPE

- FS = .045" Square Tails - .720" Insulator Height
- P = Solder Eyelet - .431" Insulator Height
- PE = Economy Eyelet - .431" Insulator Height, Card Extender, .156" only
- R = .026" Round Tails - .610" Insulator Height
- S = Dip Solder - .431" Insulator Height
- SE = Card Extender - .431" Insulator Height
- W = .025" Square Wire Wrap - .610" Insulator Height
- WE = .025" Square Card Extender - .610" Insulator Height

## MOUNTING STYLE

- 1 = **.125" Clearance Holes**  
.245" Ears, .431" Insulator Height  
.250" Flush Ears, .610" Insulator Height
- 2 = **#4-40 Threaded Insert**  
.245" Ears, .431" Insulator Height  
.250" Flush Ears, .610" Insulator Height
- 3 = **Floating Bobbin**  
.220" Ears not Including Bobbin on All Connectors (Flush Ears on .610" Insulator Height)
- 4 = **No Mounting Ears**  
All Connectors
- 5 = **Raised with .125" Clearance Holes**  
Wire Wrap Only, .610" Insulator Height
- 6 = **Raised with #4-40 Threaded Insert**  
Wire Wrap Only, .610" Insulator Height
- 8 = **.125" Side Holes** (Cross Drilled)
- 9 = **One Ear, .125" Clearance Hole**  
Dip Solder & Eyelet
- 10 = **One Ear, #4-40 Threaded Insert**  
Dip Solder & Eyelet
- 11 = **.142" Mounting Holes**  
.431" Insulator Height, Dip Solder, Eyelet  
.610" Insulator Height, Wire Wrap
- 12 = **.128" Clearance Holes**  
.431" Insulator Height, Dip Solder & Eyelet  
.610" Insulator Height, Wire Wrap
- 13 = **Flush Ears, .128" Clearance Holes**  
.430" Ears with Pad on .610" Insulator Height, Wire Wrap Only
- 14 = **.142" Side Holes** (Cross Drilled)  
.431" Insulator Height, Dip Solder, Eyelet  
.610" Insulator Height, Wire Wrap
- 15 = **Flush Ears, .125" Clearance Holes**  
.190" Ears, No Pad  
.610" Insulator Height, Wire Wrap Only
- 16 = **Flush .250" Ears to top of the Card Entry Side of the Connector**,  
.610" Insulator Height, Wire Wrap Only
- 18 = **Flush Ears, .125" Side Holes** (Cross Drilled)
- 19 = **.152" Clearance Holes**  
.610" Insulator Height, Wire Wrap Only
- 58 = **Raised Ears, .125" Side Holes** (Cross Drilled)
- 81 = **Flush Ears, .125" Side Holes**  
.250" Ears with Pad, .610" Insulator Height, Wire Wrap
- 86 = **Side Holes with #4-40 Threaded Insert**  
.250" Ears with Pad, .610" Insulator Height

## MODIFICATION CODE

CONSULT FACTORY FOR OTHER OPTIONS

- A = **Contacts Loaded one side only**
- B = **Center Barrier for 28/56 - .156" Dip Solder & Eyelet**
- C = **.030" Longer Cardslot and Mounting Hole Centers for 22/44, All .156" (Consult Factory)**
- D = **.000050" Gold Plating - (Consult Factory)**
- E9 = **.200" Row Spacing on .156" Contact Centers**
- F = **6.802" Cardslot for 43/86 .156" Eyelet & Wire Wrap Only**
- F9 = **6.802" Cardslot and .200" Row Spacing for 43/86 Dip Solder Only**
- G = **.000030" Gold Plating**
- H = **.190" Contact Length for .025" Square & .026" Round Contacts .250" Contact Length without Standoffs**
- J = **Low Insertion Force**
- K = **MPSL - Selective Gold with Pure Tin, Matte Plating on Tails MPL - Overall Pure Tin, Matte**
- L = **.140" Contact Length for .156" Dip Solder Only**
- M = **Pad on Bottom of Mounting Ears for .156", .431" Insulator Height, Dip Solder & Eyelet Only**
- N = **Hi-light Contact ID on Bottom (Consult Factory)**
- P = **Engraving Reversed (Consult Factory)**
- Q = **Right Angle Connector Contacts Untrimmed (Requires 'R' Modification Code)**
- R = **Right Angle Connectors**
- S = **Shorter Overall Length**
- T = **Center Standoffs Removed .100" & .125" Wire Wrap Only**
- TT = **No Standoffs**
- U = **.000020" Gold Plating**
- X9 = **.200" Row Spacing for .100" & .156" Dip Solder Only .250" Row Spacing for .125" Dip Solder Only**
- Y = **Beryllium Copper Contacts**
- Z = **Standoffs on .156" Wire Wrap**

**See applicable specification pages for more information.**

Specifications are subject to change without notice.



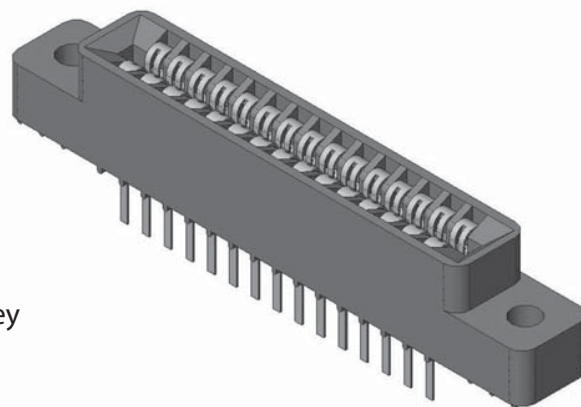
## Micro Plastics Edgards

MICROPLASTICS  
**SULLINS**

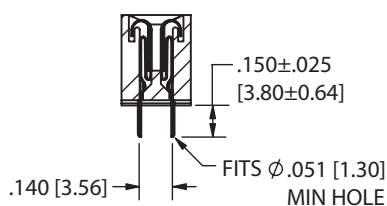
**.100" Contact Centers, .431" Insulator Height,  
Dip Solder**

### SPECIFICATIONS

- Accommodates .062" ± .008" [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- Row Spacing Available in .140" or .200" (Use Modification Code 'X9' for .200")
- P/N 04-0003-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

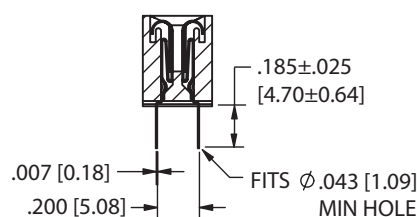


### TERMINATION TYPE



**DIP SOLDER (S)  
.140" ROW SPACING**

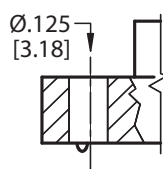
*Example P/N: MP5L-0100-10-DS-1K*



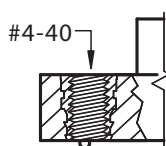
**DIP SOLDER (S)  
.200" ROW SPACING  
USE 'X9' MODIFICATION CODE**

*Example P/N: MP5L-0100-10-DS-1X9K*

### MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



## PART NUMBER CODING

### PLATING - RoHS Compliant

All Platings are Lead Free and have .000050" Nickel Underplate

#### Contact Surface

#### Termination

\*MPSL = .000010" Gold .000100" Pure Tin, Matte

\*MPL = .000100" Overall Pure Tin, Matte

MP = .000010" Overall Gold

\*Requires 'K' Modification Code

### INSULATOR MATERIAL\*\*

0 = PBT

### CONTACT CENTERS

100 = .100" [2.54mm]

### NUMBER OF POSITIONS

Contacts Per Row (See Position Chart Below)

**MPSL - 0 100 - 10 - D S - 1 K**

### MODIFICATION CODE\*\*

K = Required on MPSL or MPL Plating  
Omit for MP Plating (Overall Gold)  
X9 = .200" Row Spacing

### MOUNTING STYLE (See Opposite Page)

1 = .125" Clearance Hole  
2 = #4-40 Threaded Insert  
3 = Floating Bobbin  
4 = No Mounting

### TERMINATION TYPE (See Opposite Page)

S = Dip Solder

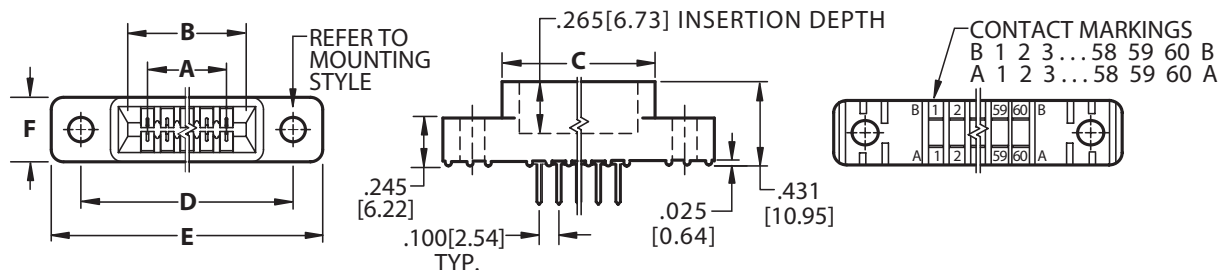
### READOUT

D = Dual

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.005 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.13 |
| 05/10                  | 0.400  | 0.600  | 0.775  | 1.075  | 1.375  | 0.330  | 10.16         | 15.24  | 19.69  | 27.31  | 34.93  | 8.38   |
| 06/12                  | 0.500  | 0.700  | 0.875  | 1.175  | 1.475  |        | 12.70         | 17.78  | 22.23  | 29.85  | 37.47  |        |
| 07/14                  | 0.600  | 0.800  | 0.975  | 1.275  | 1.575  |        | 15.24         | 20.32  | 24.77  | 32.39  | 40.01  |        |
| 08/16                  | 0.700  | 0.900  | 1.075  | 1.375  | 1.675  |        | 17.78         | 22.86  | 27.31  | 34.93  | 42.55  |        |
| 10/20                  | 0.900  | 1.100  | 1.275  | 1.575  | 1.875  |        | 22.86         | 27.94  | 32.39  | 40.01  | 47.63  |        |
| 12/24                  | 1.100  | 1.300  | 1.475  | 1.775  | 2.075  |        | 27.94         | 33.02  | 37.47  | 45.09  | 52.71  |        |
| 13/26                  | 1.200  | 1.400  | 1.575  | 1.875  | 2.175  |        | 30.48         | 35.56  | 40.01  | 47.63  | 55.25  |        |
| 15/30                  | 1.400  | 1.600  | 1.775  | 2.075  | 2.375  |        | 35.56         | 40.64  | 45.09  | 52.71  | 60.33  |        |
| 17/34                  | 1.600  | 1.800  | 1.975  | 2.275  | 2.575  |        | 40.64         | 45.72  | 50.17  | 57.79  | 65.41  |        |
| 18/36                  | 1.700  | 1.900  | 2.075  | 2.375  | 2.675  |        | 43.18         | 48.26  | 52.71  | 60.33  | 67.95  |        |
| 19/38                  | 1.800  | 2.000  | 2.175  | 2.475  | 2.775  |        | 45.72         | 50.80  | 55.25  | 62.87  | 70.49  |        |
| 20/40                  | 1.900  | 2.100  | 2.275  | 2.575  | 2.875  |        | 48.26         | 53.34  | 57.79  | 65.41  | 73.03  |        |
| 22/44                  | 2.100  | 2.300  | 2.475  | 2.775  | 3.075  |        | 53.34         | 58.42  | 62.87  | 70.49  | 78.11  |        |
| 25/50                  | 2.400  | 2.600  | 2.775  | 3.075  | 3.375  |        | 60.96         | 66.04  | 70.49  | 78.11  | 85.73  |        |
| 26/52                  | 2.500  | 2.700  | 2.875  | 3.175  | 3.475  |        | 63.50         | 68.58  | 73.03  | 80.65  | 88.27  |        |
| 28/56                  | 2.700  | 2.900  | 3.075  | 3.375  | 3.675  |        | 68.58         | 73.66  | 78.11  | 85.73  | 93.35  |        |
| 30/60                  | 2.900  | 3.100  | 3.275  | 3.575  | 3.875  | 0.400  | 73.66         | 78.74  | 83.19  | 90.81  | 98.43  | 10.16  |
| 31/62                  | 3.000  | 3.200  | 3.375  | 3.675  | 3.975  |        | 76.20         | 81.28  | 85.73  | 93.35  | 100.97 |        |
| 35/70                  | 3.400  | 3.600  | 3.775  | 4.075  | 4.375  |        | 86.36         | 91.44  | 95.89  | 103.51 | 111.13 |        |
| 36/72                  | 3.500  | 3.700  | 3.875  | 4.175  | 4.475  |        | 88.90         | 93.98  | 98.43  | 106.05 | 113.67 |        |
| 40/80                  | 3.900  | 4.100  | 4.275  | 4.575  | 4.875  |        | 99.06         | 104.14 | 108.59 | 116.21 | 123.83 |        |
| 43/86                  | 4.200  | 4.400  | 4.575  | 4.875  | 5.175  |        | 106.68        | 111.76 | 116.21 | 123.83 | 131.45 |        |
| 44/88                  | 4.300  | 4.500  | 4.675  | 4.975  | 5.275  |        | 109.22        | 114.30 | 118.75 | 126.37 | 133.99 |        |
| 49/98                  | 4.800  | 5.000  | 5.175  | 5.475  | 5.775  |        | 121.92        | 127.00 | 131.45 | 139.07 | 146.69 |        |
| 50/100                 | 4.900  | 5.100  | 5.275  | 5.575  | 5.875  |        | 124.46        | 129.54 | 133.99 | 141.61 | 149.23 |        |
| 60/120                 | 5.900  | 6.100  | 6.275  | 6.575  | 6.875  |        | 149.86        | 154.94 | 159.39 | 167.01 | 174.63 |        |
| 65/130                 | 6.400  | 6.600  | 6.775  | 7.075  | 7.375  |        | 162.56        | 167.64 | 172.09 | 179.71 | 187.33 |        |



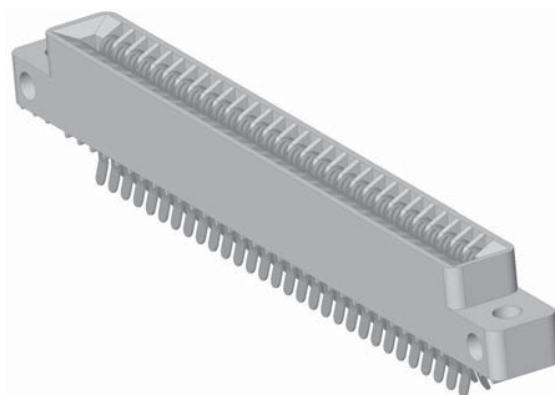
## Micro Plastics Edgards

MICROPLASTICS  
**SULLINS**

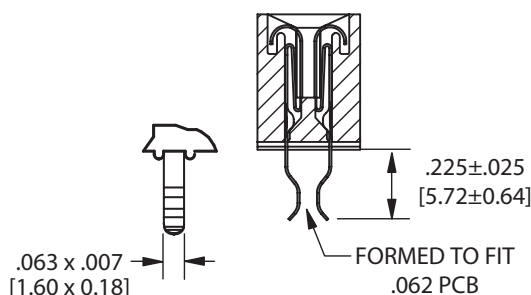
### .100" Contact Centers, .431" Insulator Height, Card Extender

#### SPECIFICATIONS

- Accommodates  $.062" \pm .008"$  [ $1.57 \pm 0.20$ ] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0003-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



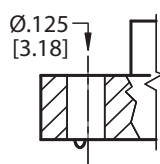
#### TERMINATION TYPE



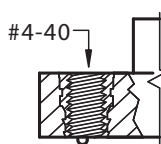
#### CARD EXTENDER (SE)

**Example P/N: MP~~SL~~-0100-10-D~~SE~~-1K**

#### MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



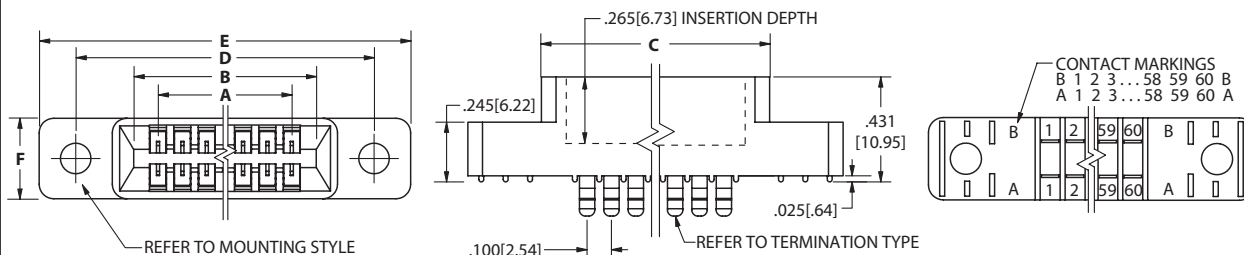
## PART NUMBER CODING

|                                                                                                                          |                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PLATING - RoHS Compliant</b><br>All Platings are Lead Free and have .000050" Nickel Underplate                        | <b>PLATING MODIFICATION CODE**</b><br>K = Required on Tin Plating<br>Omit for MP Plating (Overall Gold)                                      |
| <b>CONTACT SURFACE</b><br>*MPSL = .000010" Gold<br>*MPL = .000100" Overall Pure Tin, Matte<br>MP = .000010" Overall Gold | <b>TERMINATION</b><br>.000100" Pure Tin Matte                                                                                                |
| <b>* Requires 'K' Modification Code</b><br>Other Plating and thicknesses available upon request                          | <b>MOUNTING STYLE</b> (See Opposite Page)<br>1 = .125" Clearance Hole<br>2 = #4-40 Threaded Insert<br>3 = Floating Bobbin<br>4 = No Mounting |
| <b>INSULATOR MATERIAL**</b><br>0 = PBT                                                                                   | <b>TERMINATION TYPE</b> (See Opposite Page)<br>SE = Card Extender                                                                            |
| <b>CONTACT CENTERS</b><br>100 = .100" [2.54mm]                                                                           | <b>READOUT</b><br>D = Dual                                                                                                                   |
| <b>NUMBER OF POSITIONS</b><br>Contacts Per Row (See Position Chart Below)                                                |                                                                                                                                              |

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.005 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.13 |
| 05/10                  | 0.400  | 0.600  | 0.775  | 1.075  | 1.375  | 0.330  | 10.16         | 15.24  | 19.69  | 27.31  | 34.93  | 8.38   |
| 06/12                  | 0.500  | 0.700  | 0.875  | 1.175  | 1.475  |        | 12.70         | 17.78  | 22.23  | 29.85  | 37.47  |        |
| 07/14                  | 0.600  | 0.800  | 0.975  | 1.275  | 1.575  |        | 15.24         | 20.32  | 24.77  | 32.39  | 40.01  |        |
| 08/16                  | 0.700  | 0.900  | 1.075  | 1.375  | 1.675  |        | 17.78         | 22.86  | 27.31  | 34.93  | 42.55  |        |
| 10/20                  | 0.900  | 1.100  | 1.275  | 1.575  | 1.875  |        | 22.86         | 27.94  | 32.39  | 40.01  | 47.63  |        |
| 12/24                  | 1.100  | 1.300  | 1.475  | 1.775  | 2.075  |        | 27.94         | 33.02  | 37.47  | 45.09  | 52.71  |        |
| 13/26                  | 1.200  | 1.400  | 1.575  | 1.875  | 2.175  |        | 30.48         | 35.56  | 40.01  | 47.63  | 55.25  |        |
| 15/30                  | 1.400  | 1.600  | 1.775  | 2.075  | 2.375  |        | 35.56         | 40.64  | 45.09  | 52.71  | 60.33  |        |
| 17/34                  | 1.600  | 1.800  | 1.975  | 2.275  | 2.575  |        | 40.64         | 45.72  | 50.17  | 57.79  | 65.41  |        |
| 18/36                  | 1.700  | 1.900  | 2.075  | 2.375  | 2.675  |        | 43.18         | 48.26  | 52.71  | 60.33  | 67.95  |        |
| 19/38                  | 1.800  | 2.000  | 2.175  | 2.475  | 2.775  |        | 45.72         | 50.80  | 55.25  | 62.87  | 70.49  |        |
| 20/40                  | 1.900  | 2.100  | 2.275  | 2.575  | 2.875  |        | 48.26         | 53.34  | 57.79  | 65.41  | 73.03  |        |
| 22/44                  | 2.100  | 2.300  | 2.475  | 2.775  | 3.075  |        | 53.34         | 58.42  | 62.87  | 70.49  | 78.11  |        |
| 25/50                  | 2.400  | 2.600  | 2.775  | 3.075  | 3.375  |        | 60.96         | 66.04  | 70.49  | 78.11  | 85.73  |        |
| 26/52                  | 2.500  | 2.700  | 2.875  | 3.175  | 3.475  |        | 63.50         | 68.58  | 73.03  | 80.65  | 88.27  |        |
| 28/56                  | 2.700  | 2.900  | 3.075  | 3.375  | 3.675  |        | 68.58         | 73.66  | 78.11  | 85.73  | 93.35  |        |
| 30/60                  | 2.900  | 3.100  | 3.275  | 3.575  | 3.875  | 0.400  | 73.66         | 78.74  | 83.19  | 90.81  | 98.43  | 10.16  |
| 31/62                  | 3.000  | 3.200  | 3.375  | 3.675  | 3.975  |        | 76.20         | 81.28  | 85.73  | 93.35  | 100.97 |        |
| 35/70                  | 3.400  | 3.600  | 3.775  | 4.075  | 4.375  |        | 86.36         | 91.44  | 95.89  | 103.51 | 111.13 |        |
| 36/72                  | 3.500  | 3.700  | 3.875  | 4.175  | 4.475  |        | 88.90         | 93.98  | 98.43  | 106.05 | 113.67 |        |
| 40/80                  | 3.900  | 4.100  | 4.275  | 4.575  | 4.875  |        | 99.06         | 104.14 | 108.59 | 116.21 | 123.83 |        |
| 43/86                  | 4.200  | 4.400  | 4.575  | 4.875  | 5.175  |        | 106.68        | 111.76 | 116.21 | 123.83 | 131.45 |        |
| 44/88                  | 4.300  | 4.500  | 4.675  | 4.975  | 5.275  |        | 109.22        | 114.30 | 118.75 | 126.37 | 133.99 |        |
| 49/98                  | 4.800  | 5.000  | 5.175  | 5.475  | 5.775  |        | 121.92        | 127.00 | 131.45 | 139.07 | 146.69 |        |
| 50/100                 | 4.900  | 5.100  | 5.275  | 5.575  | 5.875  |        | 124.46        | 129.54 | 133.99 | 141.61 | 149.23 |        |
| 60/120                 | 5.900  | 6.100  | 6.275  | 6.575  | 6.875  |        | 149.86        | 154.94 | 159.39 | 167.01 | 174.63 |        |
| 65/130                 | 6.400  | 6.600  | 6.775  | 7.075  | 7.375  |        | 162.56        | 167.64 | 172.09 | 179.71 | 187.33 |        |



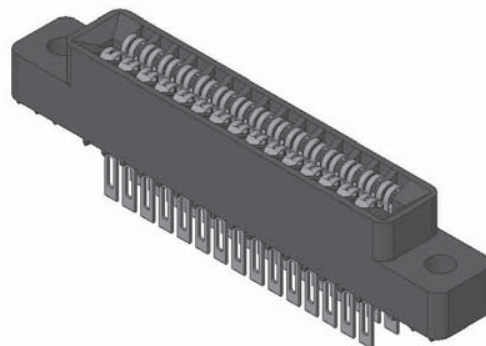
## Micro Plastics Edgecards

MICROPLASTICS  
**SULLINS**

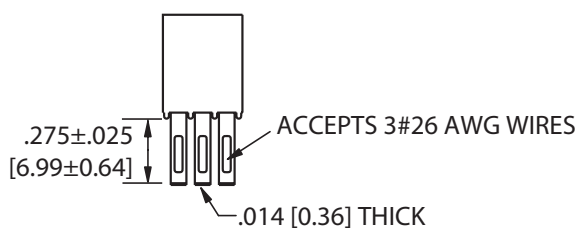
**.100" Contact Centers, .431" Insulator Height,  
Eyelet**

### SPECIFICATIONS

- Accommodates .062" ± .008" [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and
- Part Number Coding See Page 82-83
- P/N 04-0003-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



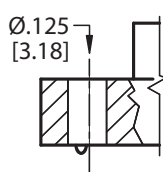
### TERMINATION TYPE



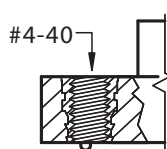
#### EYELET (P)

**Example P/N: MP-0100-10-DP-1**

### MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



## PART NUMBER CODING

|                                                                                                                                                                                                                                                                        |                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MPL - 0 100 - 10 - D P - 1 K</b>                                                                                                                                                                                                                                    |                                                                                                                                              |
| <b>PLATING - RoHS Compliant</b><br>All Platings are Lead Free and have .000050" Nickel Underplate<br>*MPL = .000100" Overall Pure Tin, Matte<br>MP = .000010" Overall Gold<br>* Requires 'K' Modification Code<br>Other Plating and thicknesses available upon request | <b>PLATING MODIFICATION CODE**</b><br>K = Required on Tin Plating<br>Omit for MP Plating (Overall Gold)                                      |
| <b>INSULATOR MATERIAL**</b><br>0 = PBT                                                                                                                                                                                                                                 | <b>MOUNTING STYLE</b> (See Opposite Page)<br>1 = .125" Clearance Hole<br>2 = #4-40 Threaded Insert<br>3 = Floating Bobbin<br>4 = No Mounting |
| <b>CONTACT CENTERS</b><br>100 = .100" [2.54mm]                                                                                                                                                                                                                         | <b>TERMINATION TYPE</b> (See Opposite Page)<br>P = Pierced Eyelet, .014" Thick                                                               |
| <b>NUMBER OF POSITIONS</b><br>Contacts Per Row (See Position Chart Below)                                                                                                                                                                                              | <b>READOUT</b><br>D = Dual                                                                                                                   |

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

**DIMENSIONS** Dimensions in [ ] are in millimeters, all others are in inches.

The diagram includes three views of a connector:

- Top View:** Shows dimensions A, B, C, D, E, and F. A label 'REFER TO MOUNTING STYLE' points to the mounting holes.
- Side View:** Shows dimensions for insertion depth (.265[6.73]), contact height (.431 [10.95]), contact pitch (.025[0.64]), and mounting hole pitch (.100[2.54]). A label 'REFER TO TERMINATION TYPE' points to the termination points.
- End View:** Shows contact markings: B 1 2 3...58 59 60 B and A 1 2 3...58 59 60 A.

| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        | F±.005 | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 |        | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.13 |
| 05/10                  | 0.400  | 0.600  | 0.775  | 1.075  | 1.375  | 0.330  | 10.16         | 15.24  | 19.69  | 27.31  | 34.93  | 8.38   |
| 06/12                  | 0.500  | 0.700  | 0.875  | 1.175  | 1.475  |        | 12.70         | 17.78  | 22.23  | 29.85  | 37.47  |        |
| 07/14                  | 0.600  | 0.800  | 0.975  | 1.275  | 1.575  |        | 15.24         | 20.32  | 24.77  | 32.39  | 40.01  |        |
| 08/16                  | 0.700  | 0.900  | 1.075  | 1.375  | 1.675  |        | 17.78         | 22.86  | 27.31  | 34.93  | 42.55  |        |
| 10/20                  | 0.900  | 1.100  | 1.275  | 1.575  | 1.875  |        | 22.86         | 27.94  | 32.39  | 40.01  | 47.63  |        |
| 12/24                  | 1.100  | 1.300  | 1.475  | 1.775  | 2.075  |        | 27.94         | 33.02  | 37.47  | 45.09  | 52.71  |        |
| 13/26                  | 1.200  | 1.400  | 1.575  | 1.875  | 2.175  |        | 30.48         | 35.56  | 40.01  | 47.63  | 55.25  |        |
| 15/30                  | 1.400  | 1.600  | 1.775  | 2.075  | 2.375  |        | 35.56         | 40.64  | 45.09  | 52.71  | 60.33  |        |
| 17/34                  | 1.600  | 1.800  | 1.975  | 2.275  | 2.575  |        | 40.64         | 45.72  | 50.17  | 57.79  | 65.41  |        |
| 18/36                  | 1.700  | 1.900  | 2.075  | 2.375  | 2.675  |        | 43.18         | 48.26  | 52.71  | 60.33  | 67.95  |        |
| 19/38                  | 1.800  | 2.000  | 2.175  | 2.475  | 2.775  |        | 45.72         | 50.80  | 55.25  | 62.87  | 70.49  |        |
| 20/40                  | 1.900  | 2.100  | 2.275  | 2.575  | 2.875  |        | 48.26         | 53.34  | 57.79  | 65.41  | 73.03  |        |
| 22/44                  | 2.100  | 2.300  | 2.475  | 2.775  | 3.075  |        | 53.34         | 58.42  | 62.87  | 70.49  | 78.11  |        |
| 25/50                  | 2.400  | 2.600  | 2.775  | 3.075  | 3.375  |        | 60.96         | 66.04  | 70.49  | 78.11  | 85.73  |        |
| 26/52                  | 2.500  | 2.700  | 2.875  | 3.175  | 3.475  |        | 63.50         | 68.58  | 73.03  | 80.65  | 88.27  |        |
| 28/56                  | 2.700  | 2.900  | 3.075  | 3.375  | 3.675  |        | 68.58         | 73.66  | 78.11  | 85.73  | 93.35  |        |
| 30/60                  | 2.900  | 3.100  | 3.275  | 3.575  | 3.875  |        | 73.66         | 78.74  | 83.19  | 90.81  | 98.43  |        |
| 31/62                  | 3.000  | 3.200  | 3.375  | 3.675  | 3.975  | 0.400  | 76.20         | 81.28  | 85.73  | 93.35  | 100.97 | 10.16  |
| 35/70                  | 3.400  | 3.600  | 3.775  | 4.075  | 4.375  |        | 86.36         | 91.44  | 95.89  | 103.51 | 111.13 |        |
| 36/72                  | 3.500  | 3.700  | 3.875  | 4.175  | 4.475  |        | 88.90         | 93.98  | 98.43  | 106.05 | 113.67 |        |
| 40/80                  | 3.900  | 4.100  | 4.275  | 4.575  | 4.875  |        | 99.06         | 104.14 | 108.59 | 116.21 | 123.83 |        |
| 43/86                  | 4.200  | 4.400  | 4.575  | 4.875  | 5.175  |        | 106.68        | 111.76 | 116.21 | 123.83 | 131.45 |        |
| 44/88                  | 4.300  | 4.500  | 4.675  | 4.975  | 5.275  |        | 109.22        | 114.30 | 118.75 | 126.37 | 133.99 |        |
| 49/98                  | 4.800  | 5.000  | 5.175  | 5.475  | 5.775  |        | 121.92        | 127.00 | 131.45 | 139.07 | 146.69 |        |
| 50/100                 | 4.900  | 5.100  | 5.275  | 5.575  | 5.875  |        | 124.46        | 129.54 | 133.99 | 141.61 | 149.23 |        |
| 60/120                 | 5.900  | 6.100  | 6.275  | 6.575  | 6.875  |        | 149.86        | 154.94 | 159.39 | 167.01 | 174.63 |        |
| 65/130                 | 6.400  | 6.600  | 6.775  | 7.075  | 7.375  |        | 162.56        | 167.64 | 172.09 | 179.71 | 187.33 |        |



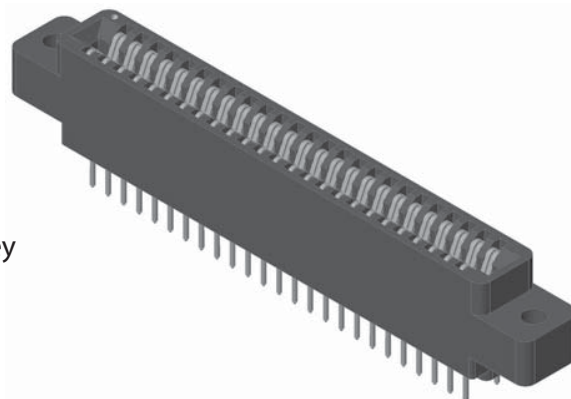
## Micro Plastics Edgards

MICROPLASTICS  
**SULLINS**

**.100" Contact Centers, .610" Insulator Height,  
Wire Wrap & Dip Solder**

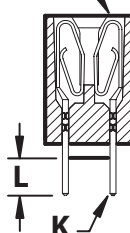
### SPECIFICATIONS

- Accommodates .062" ± .008" [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



### TERMINATION TYPE

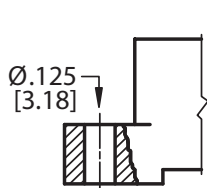
#### LOOP BELLOWS



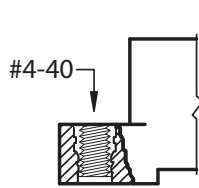
#### LOOP BELLOWS

| TERMINATION CODE | MODIFICATION CODE | TYPE       | POST CROSS SECTION K | POST LENGTH L | FITS MIN. HOLE SIZE | EXAMPLE PART NUMBER                     |
|------------------|-------------------|------------|----------------------|---------------|---------------------|-----------------------------------------|
| R                | H                 | Dip Solder | .026 [0.66] Round    | .190 [4.83]   | .030 [0.76]         | <i><b>MPSL-0100-10-DR-1HK</b></i>       |
| R                | H(.165)           | Dip Solder | .026 [0.66] Round    | .165 [4.19]   | .030 [0.76]         | <i><b>MPSL-0100-10-DR-1HK(.165)</b></i> |
| W                | H                 | Dip Solder | .025 [0.64] Square   | .190 [4.83]   | .040 [1.02]         | <i><b>MPSL-0100-10-DW-1HK</b></i>       |
| W                | OMIT              | Wire Wrap  | .025 [0.64] Square   | .560 [14.20]  | .040 [1.02]         | <i><b>MPSL-0100-10-DW-1K</b></i>        |

### MOUNTING STYLE



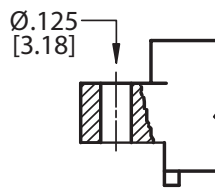
(STYLE 1)



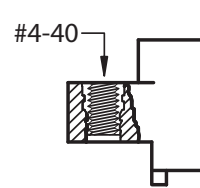
(STYLE 2)



(STYLE 4)



(STYLE 5)



(STYLE 6)



## PART NUMBER CODING

**MPSL - 0 100 - 10 - D W - 1 H K**

### PLATING - RoHS Compliant

All Platings are Lead Free and have .000050" Nickel Underplate

**Contact Surface Termination**

\*MPSL = .000010" Gold .000100" Pure Tin, Matte

\*MPL = .000100" Overall Pure Tin, Matte

MP = .000010" Overall Gold

\*Requires 'K' Modification Code

### INSULATOR MATERIAL \*\*

0 = PBT

### CONTACT CENTERS

100 = .100" [2.54mm]

### NUMBER OF POSITIONS

Contacts Per Row (See Position Chart Below)

### READOUT

D = Dual

### PLATING MODIFICATION CODE\*\*

K = Required on MPSL or MPL Plating  
Omit for MP Plating (Overall Gold)

### MODIFICATION CODE\*\*

(See Opposite Page)

H = Dip Solder .190[4.83] Tail Length  
(.026 Round or .025 Square)

H(.165) = Dip Solder .165[4.19] Tail Length  
(.026 Round Only)

### MOUNTING STYLE (See Opposite Page)

- 1 = .125" Clearance Hole
- 2 = #4-40 Threaded Insert
- 4 = No Mounting
- 5 = Raised, .125" Clearance Hole
- 6 = Raised, #4-40 Threaded Insert

### TERMINATION TYPE (See Opposite Page)

#### LOOP BELLOWS

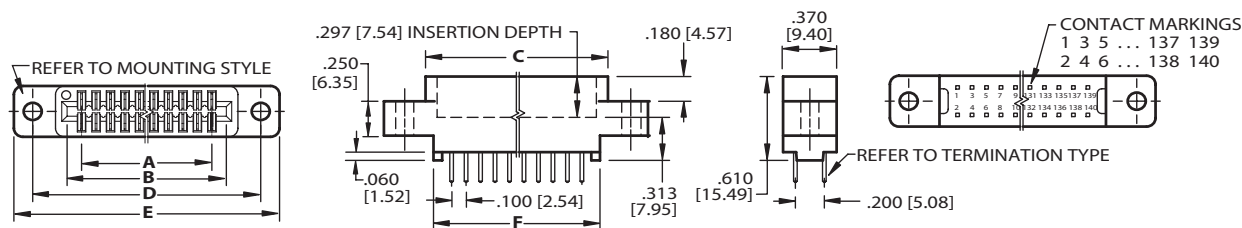
R = .026[.66mm] Round

W = .025[.64mm] Square

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.





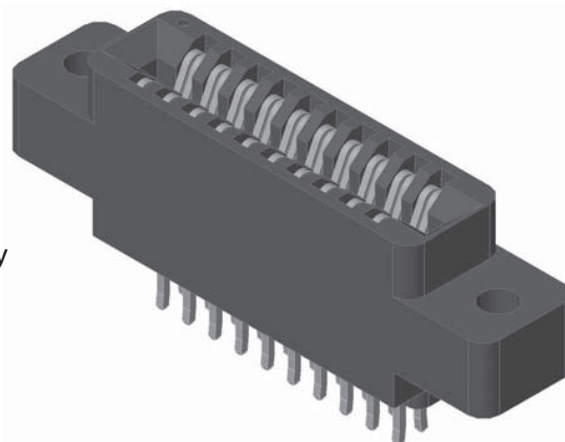
## Micro Plastics Edgcards

MICROPLASTICS  
**SULLINS**

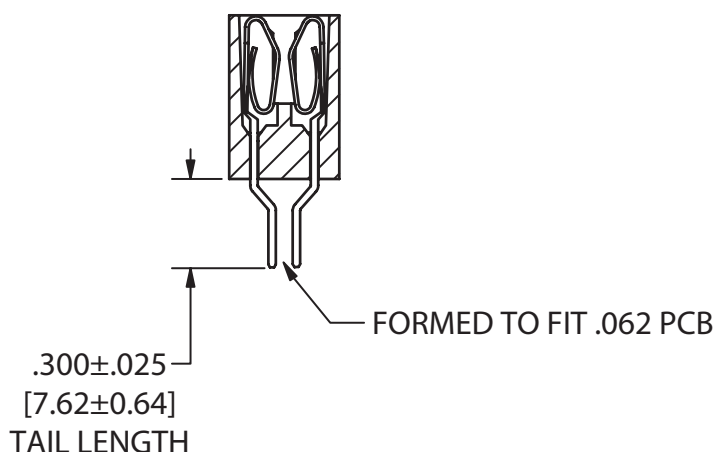
**.100" Contact Centers, .550" Insulator Height,  
.025" Square Card Extender**

### SPECIFICATIONS

- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

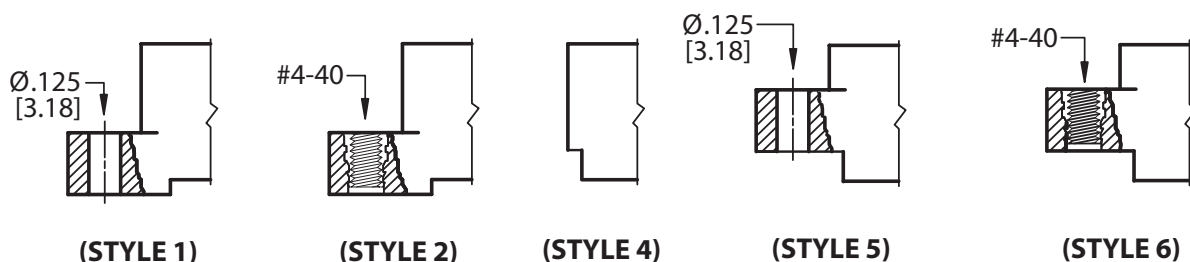


### TERMINATION TYPE



**Example P/N: MP~~SL~~-0100-10-DWE-4KTT**

### MOUNTING STYLE





## PART NUMBER CODING

|                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PLATING - RoHS Compliant</b><br>All Platings are Lead Free and have .000050" Nickel Underplate<br><b>Contact Surface</b><br>*MPSL = .000010" Gold<br>*MPL = .000100" Overall Pure Tin, Matte<br>MP = .000010" Overall Gold<br><b>*Requires 'K' Modification Code</b> | <b>MODIFICATION CODE**</b><br>TT = No Standoffs                                                                                                                                                |
| <b>INSULATOR MATERIAL**</b><br>0 = PBT                                                                                                                                                                                                                                  | <b>PLATING MODIFICATION CODE**</b><br>K = Required on MPSL or MPL Plating<br>Omit for MP Plating (Overall Gold)                                                                                |
| <b>CONTACT CENTERS</b><br>100 = .100" [2.54mm]                                                                                                                                                                                                                          | <b>MOUNTING STYLE</b> (See Opposite Page)<br>1 = .125" Clearance Hole<br>2 = #4-40 Threaded Insert<br>4 = No Mounting<br>5 = Raised, .125" Clearance Hole<br>6 = Raised, #4-40 Threaded Insert |
| <b>NUMBER OF POSITIONS</b><br>Contacts Per Row (See Position Chart Below)                                                                                                                                                                                               | <b>TERMINATION TYPE</b> (See Opposite Page)<br>WE = Card Extender                                                                                                                              |
| <b>READOUT</b><br>D = Dual                                                                                                                                                                                                                                              |                                                                                                                                                                                                |

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

| <b>DIMENSIONS</b> Dimensions in [ ] are in millimeters, all others are in inches. |        |        |        |        |        |        |               |        |        |        |        |        |
|-----------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                                                                                   |        |        |        |        |        |        |               |        |        |        |        |        |
| POSITIONS/<br>CONTACTS                                                            | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|                                                                                   | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.015 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.38 |
| 06/12                                                                             | 0.500  | 0.700  | 0.860  | 1.175  | 1.435  | 0.750  | 12.70         | 17.78  | 21.84  | 29.85  | 36.45  | 19.05  |
| 08/16                                                                             | 0.700  | 0.900  | 1.060  | 1.375  | 1.635  | 0.950  | 17.78         | 22.86  | 26.92  | 34.93  | 41.53  | 24.13  |
| 10/20                                                                             | 0.900  | 1.100  | 1.260  | 1.575  | 1.835  | 1.150  | 22.86         | 27.94  | 32.00  | 40.01  | 46.61  | 29.21  |
| 12/24                                                                             | 1.100  | 1.300  | 1.460  | 1.775  | 2.035  | 1.350  | 27.94         | 33.02  | 37.08  | 45.09  | 51.69  | 34.29  |
| 13/26                                                                             | 1.200  | 1.400  | 1.560  | 1.875  | 2.135  | 1.450  | 30.48         | 35.56  | 39.62  | 47.63  | 54.23  | 36.83  |
| 15/30                                                                             | 1.400  | 1.600  | 1.760  | 2.075  | 2.335  | 1.650  | 35.56         | 40.64  | 44.70  | 52.71  | 59.31  | 41.91  |
| 17/34                                                                             | 1.600  | 1.800  | 1.960  | 2.275  | 2.535  | 1.850  | 40.64         | 45.72  | 49.78  | 57.79  | 64.39  | 46.99  |
| 18/36                                                                             | 1.700  | 1.900  | 2.060  | 2.375  | 2.635  | 1.950  | 43.18         | 48.26  | 52.32  | 60.33  | 66.93  | 49.53  |
| 20/40                                                                             | 1.900  | 2.100  | 2.260  | 2.575  | 2.835  | 2.150  | 48.26         | 53.34  | 57.40  | 65.41  | 72.01  | 54.61  |
| 22/44                                                                             | 2.100  | 2.300  | 2.460  | 2.775  | 3.035  | 2.350  | 53.34         | 58.42  | 62.48  | 70.49  | 77.09  | 59.69  |
| 24/48                                                                             | 2.300  | 2.500  | 2.660  | 2.975  | 3.235  | 2.550  | 58.42         | 63.50  | 67.56  | 75.57  | 82.17  | 64.77  |
| 25/50                                                                             | 2.400  | 2.600  | 2.760  | 3.075  | 3.335  | 2.650  | 60.96         | 66.04  | 70.10  | 78.11  | 84.71  | 67.31  |
| 28/56                                                                             | 2.700  | 2.900  | 3.060  | 3.375  | 3.635  | 2.950  | 68.58         | 73.66  | 77.72  | 85.73  | 92.33  | 74.93  |
| 30/60                                                                             | 2.900  | 3.100  | 3.260  | 3.575  | 3.835  | 3.150  | 73.66         | 78.74  | 82.80  | 90.81  | 97.41  | 80.01  |
| 31/62                                                                             | 3.000  | 3.200  | 3.360  | 3.675  | 3.935  | 3.250  | 76.20         | 81.28  | 85.34  | 93.35  | 99.95  | 82.55  |
| 35/70                                                                             | 3.400  | 3.600  | 3.760  | 4.075  | 4.335  | 3.650  | 86.36         | 91.44  | 95.50  | 103.51 | 110.11 | 92.71  |
| 36/72                                                                             | 3.500  | 3.700  | 3.860  | 4.175  | 4.435  | 3.750  | 88.90         | 93.98  | 98.04  | 106.05 | 112.65 | 95.25  |
| 40/80                                                                             | 3.900  | 4.100  | 4.260  | 4.575  | 4.835  | 4.150  | 99.06         | 104.14 | 108.20 | 116.21 | 122.81 | 105.41 |
| 43/86                                                                             | 4.200  | 4.400  | 4.560  | 4.875  | 5.135  | 4.450  | 106.68        | 111.76 | 115.82 | 123.83 | 130.43 | 113.03 |
| 44/88                                                                             | 4.300  | 4.500  | 4.660  | 4.975  | 5.235  | 4.550  | 109.22        | 114.30 | 118.36 | 126.37 | 132.97 | 115.57 |
| 50/100                                                                            | 4.900  | 5.100  | 5.260  | 5.575  | 5.835  | 5.150  | 124.46        | 129.54 | 133.60 | 141.61 | 148.21 | 130.81 |
| 55/110                                                                            | 5.400  | 5.600  | 5.760  | 6.075  | 6.335  | 5.650  | 137.16        | 142.24 | 146.30 | 154.31 | 160.91 | 143.51 |
| 60/120                                                                            | 5.900  | 6.100  | 6.260  | 6.575  | 6.835  | 6.150  | 149.86        | 154.94 | 159.00 | 167.01 | 173.61 | 156.21 |
| 61/122                                                                            | 6.000  | 6.200  | 6.360  | 6.675  | 6.935  | 6.250  | 152.40        | 157.48 | 161.54 | 169.55 | 176.15 | 158.75 |
| 65/130                                                                            | 6.400  | 6.600  | 6.760  | 7.075  | 7.335  | 6.650  | 162.56        | 167.64 | 171.70 | 179.71 | 186.31 | 168.91 |
| 70/140                                                                            | 6.900  | 7.100  | 7.260  | 7.575  | 7.835  | 7.150  | 175.26        | 180.34 | 184.40 | 192.41 | 199.01 | 181.61 |



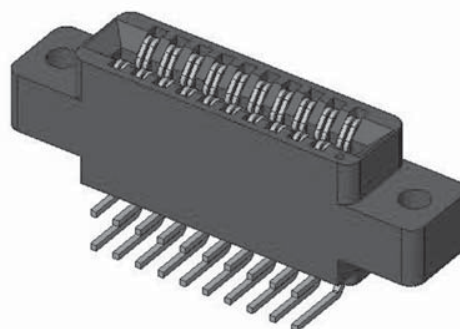
## Micro Plastics Edgards

MICROPLASTICS  
**SULLINS**

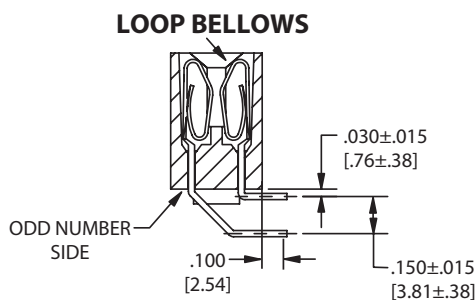
**.100" Contact Centers, .610" Insulator Height,  
Right Angle**

### SPECIFICATIONS

- Accommodates .062" ± .008" [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

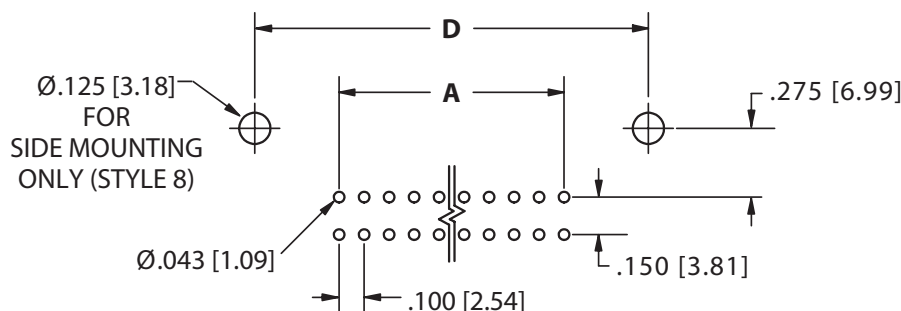


### TERMINATION TYPE

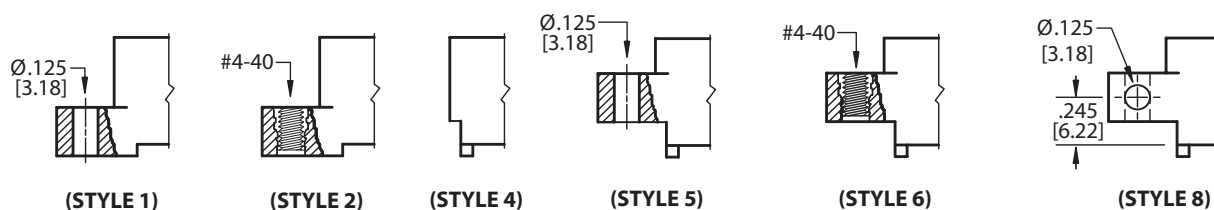


**Example P/N: MP-0100-10-DW-1R**

### PCB LAYOUT



### MOUNTING STYLE





## PART NUMBER CODING

### PLATING - RoHS Compliant

All Platings are Lead Free and have .000050" Nickel Underplate

#### Contact Surface Termination

\*MPSL = .000010" Gold .000100" Pure Tin, Matte

\*MPL = .000100" Overall Pure Tin, Matte

MP = .000010" Overall Gold

\*Requires 'K' Modification Code

### INSULATOR MATERIAL \*\*

0 = PBT

### CONTACT CENTERS

100 = .100" [2.54mm]

### NUMBER OF POSITIONS

Contacts Per Row (See Position Chart Below)

### READOUT

D = Dual

**MPSL - 0 100 - 10 - D W - 1 K R**

### MODIFICATION CODE\*\*

R = Right Angle

### PLATING MODIFICATION CODE\*\*

K = Required on MPSL or MPL Plating  
Omit for MP Plating (Overall Gold)

### MOUNTING STYLE (See Opposite Page)

- 1 = .125" Clearance Hole
- 2 = #4-40 Threaded Insert
- 4 = No Mounting
- 5 = Raised, .125" Clearance Hole
- 6 = Raised, #4-40 Threaded Insert
- 8 = Raised, Side Mounting, .125" Clearance Hole

### TERMINATION TYPE (See Opposite Page)

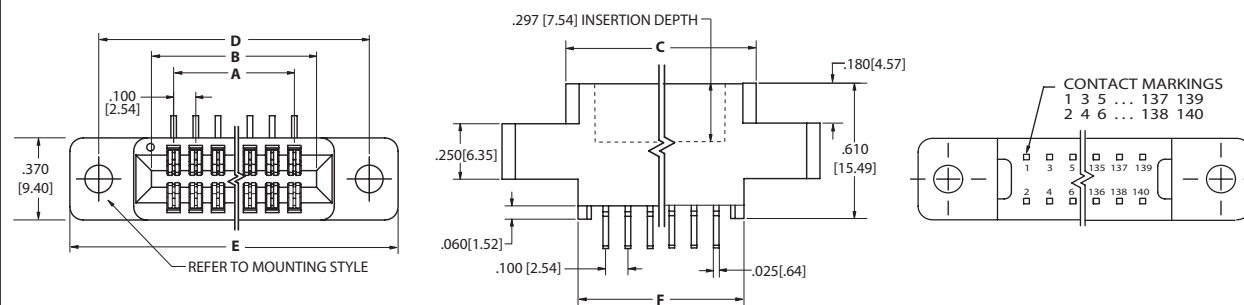
#### LOOP BELLOWS

W = .025 [.64] Square

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.015 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.38 |
| 06/12                  | 0.500  | 0.700  | 0.860  | 1.175  | 1.435  | 0.750  | 12.70         | 17.78  | 21.84  | 29.85  | 36.45  | 19.05  |
| 08/16                  | 0.700  | 0.900  | 1.060  | 1.375  | 1.635  | 0.950  | 17.78         | 22.86  | 26.92  | 34.93  | 41.53  | 24.13  |
| 10/20                  | 0.900  | 1.100  | 1.260  | 1.575  | 1.835  | 1.150  | 22.86         | 27.94  | 32.00  | 40.01  | 46.61  | 29.21  |
| 12/24                  | 1.100  | 1.300  | 1.460  | 1.775  | 2.035  | 1.350  | 27.94         | 33.02  | 37.08  | 45.09  | 51.69  | 34.29  |
| 13/26                  | 1.200  | 1.400  | 1.560  | 1.875  | 2.135  | 1.450  | 30.48         | 35.56  | 39.62  | 47.63  | 54.23  | 36.83  |
| 15/30                  | 1.400  | 1.600  | 1.760  | 2.075  | 2.335  | 1.650  | 35.56         | 40.64  | 44.70  | 52.71  | 59.31  | 41.91  |
| 17/34                  | 1.600  | 1.800  | 1.960  | 2.275  | 2.535  | 1.850  | 40.64         | 45.72  | 49.78  | 57.79  | 64.39  | 46.99  |
| 18/36                  | 1.700  | 1.900  | 2.060  | 2.375  | 2.635  | 1.950  | 43.18         | 48.26  | 52.32  | 60.33  | 66.93  | 49.53  |
| 20/40                  | 1.900  | 2.100  | 2.260  | 2.575  | 2.835  | 2.150  | 48.26         | 53.34  | 57.40  | 65.41  | 72.01  | 54.61  |
| 22/44                  | 2.100  | 2.300  | 2.460  | 2.775  | 3.035  | 2.350  | 53.34         | 58.42  | 62.48  | 70.49  | 77.09  | 59.69  |
| 24/48                  | 2.300  | 2.500  | 2.660  | 2.975  | 3.235  | 2.550  | 58.42         | 63.50  | 67.56  | 75.57  | 82.17  | 64.77  |
| 25/50                  | 2.400  | 2.600  | 2.760  | 3.075  | 3.335  | 2.650  | 60.96         | 66.04  | 70.10  | 78.11  | 84.71  | 67.31  |
| 28/56                  | 2.700  | 2.900  | 3.060  | 3.375  | 3.635  | 2.950  | 68.58         | 73.66  | 77.72  | 85.73  | 92.33  | 74.93  |
| 30/60                  | 2.900  | 3.100  | 3.260  | 3.575  | 3.835  | 3.150  | 73.66         | 78.74  | 82.80  | 90.81  | 97.41  | 80.01  |
| 31/62                  | 3.000  | 3.200  | 3.360  | 3.675  | 3.935  | 3.250  | 76.20         | 81.28  | 85.34  | 93.35  | 99.95  | 82.55  |
| 35/70                  | 3.400  | 3.600  | 3.760  | 4.075  | 4.335  | 3.650  | 86.36         | 91.44  | 95.50  | 103.51 | 110.11 | 92.71  |
| 36/72                  | 3.500  | 3.700  | 3.860  | 4.175  | 4.435  | 3.750  | 88.90         | 93.98  | 98.04  | 106.05 | 112.65 | 95.25  |
| 40/80                  | 3.900  | 4.100  | 4.260  | 4.575  | 4.835  | 4.150  | 99.06         | 104.14 | 108.20 | 116.21 | 122.81 | 105.41 |
| 43/86                  | 4.200  | 4.400  | 4.560  | 4.875  | 5.135  | 4.450  | 106.68        | 111.76 | 115.82 | 123.83 | 130.43 | 113.03 |
| 44/88                  | 4.300  | 4.500  | 4.660  | 4.975  | 5.235  | 4.550  | 109.22        | 114.30 | 118.36 | 126.37 | 132.97 | 115.57 |
| 50/100                 | 4.900  | 5.100  | 5.260  | 5.575  | 5.835  | 5.150  | 124.46        | 129.54 | 133.60 | 141.61 | 148.21 | 130.81 |
| 55/110                 | 5.400  | 5.600  | 5.760  | 6.075  | 6.335  | 5.650  | 137.16        | 142.24 | 146.30 | 154.31 | 160.91 | 143.51 |
| 60/120                 | 5.900  | 6.100  | 6.260  | 6.575  | 6.835  | 6.150  | 149.86        | 154.94 | 159.00 | 167.01 | 173.61 | 156.21 |
| 61/122                 | 6.000  | 6.200  | 6.360  | 6.675  | 6.935  | 6.250  | 152.40        | 157.48 | 161.54 | 169.55 | 176.15 | 158.75 |
| 65/130                 | 6.400  | 6.600  | 6.760  | 7.075  | 7.335  | 6.650  | 162.56        | 167.64 | 171.70 | 179.71 | 186.31 | 168.91 |
| 70/140                 | 6.900  | 7.100  | 7.260  | 7.575  | 7.835  | 7.150  | 175.26        | 180.34 | 184.40 | 192.41 | 199.01 | 181.61 |



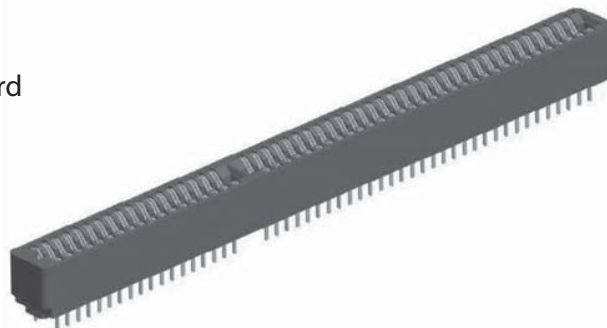
## Micro Plastics Edgecards

MICROPLASTICS  
**SULLINS**

**.100" Contact Centers, .610" Insulator Height,  
Special 18/31 with Barrier, Dip Solder/Wire Wrap, [ISA]**

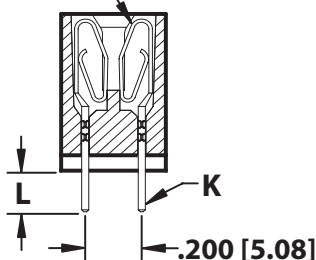
### SPECIFICATIONS

- ISA Connector
- Accommodates .062" ± .008" [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



### TERMINATION TYPE

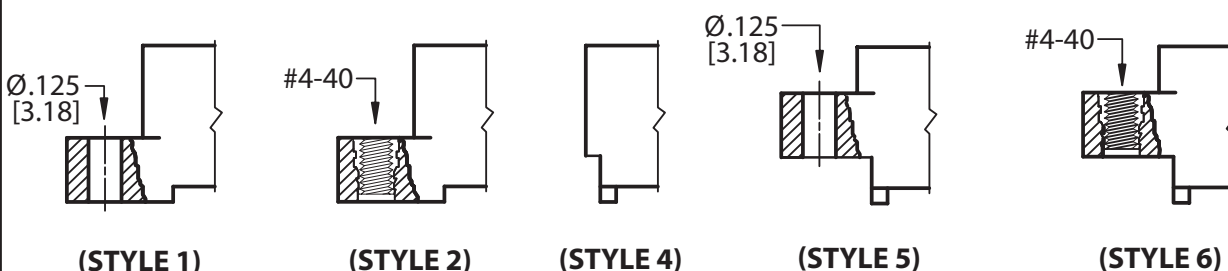
#### LOOP BELLOWS



#### LOOP BELLOWS

| TERMINATION CODE | MODIFICATION CODE | TYPE       | POST CROSS SECTION K | POST LENGTH L | FITS MIN. HOLE SIZE | EXAMPLE PART NUMBER                        |
|------------------|-------------------|------------|----------------------|---------------|---------------------|--------------------------------------------|
| R                | H                 | Dip Solder | .026 [0.66] Round    | .190 [4.83]   | .030 [0.76]         | <i><b>MPSL-0100-18/31-DR-1HK</b></i>       |
| R                | H(.165)           | Dip Solder | .026 [0.66] Round    | .165 [4.19]   | .030 [0.76]         | <i><b>MPSL-0100-18/31-DR-1HK(.165)</b></i> |
| W                | H                 | Dip Solder | .025 [0.64] Square   | .190 [4.83]   | .040 [1.02]         | <i><b>MPSL-0100-18/31-DW-1HK</b></i>       |
| W                | OMIT              | Wire Wrap  | .025 [0.64] Square   | .560 [14.20]  | .040 [1.02]         | <i><b>MPSL-0100-18/31-DW-1K</b></i>        |

### MOUNTING STYLE

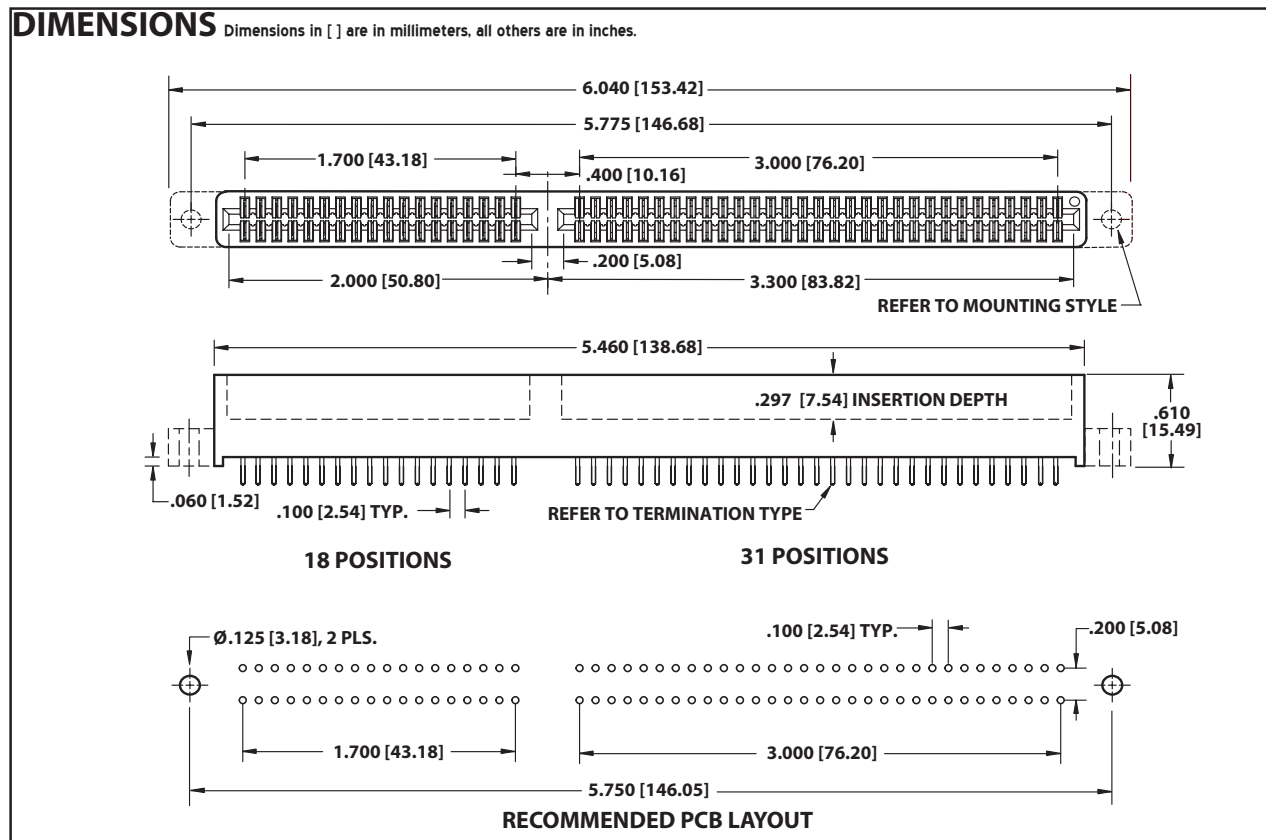




## PART NUMBER CODING

|                                                                                                                           |                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PLATING - RoHS Compliant</b><br>All Platings are Lead Free and have .000050" Nickel Underplate                         | <b>PLATING MODIFICATION CODE**</b><br>K = Required on MP SL or MPL Plating<br>Omit for MP Plating (Overall Gold)                                                                               |
| <b>CONTACT SURFACE</b><br>*MP SL = .000010" Gold<br>*MPL = .000100" Overall Pure Tin, Matte<br>MP = .000010" Overall Gold | <b>MODIFICATION CODE**</b><br>(See Opposite Page)<br>H = Dip Solder .190[4.83] Tail Length<br>(.026 Round or .025 Square)<br>H(.165) = Dip Solder .165[4.19] Tail Length<br>(.026 Round Only)  |
| <b>INSULATOR MATERIAL**</b><br>0 = PBT                                                                                    | <b>MOUNTING STYLE</b> (See Opposite Page)<br>1 = .125" Clearance Hole<br>2 = #4-40 Threaded Insert<br>4 = No Mounting<br>5 = Raised, .125" Clearance Hole<br>6 = Raised, #4-40 Threaded Insert |
| <b>CONTACT CENTERS</b><br>100 = .100"[2.54mm]                                                                             | <b>TERMINATION TYPE</b> (See Opposite Page)<br><b>LOOP BELLOWS</b><br>R = .026[.66mm] Round<br>W = .025[.64mm] Square                                                                          |
| <b>NUMBER OF POSITIONS</b><br>18/31 Per Row                                                                               |                                                                                                                                                                                                |
| <b>READOUT</b><br>D = Dual                                                                                                |                                                                                                                                                                                                |

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**  
**CONSULT FACTORY FOR RIGHT ANGLE VERSION**





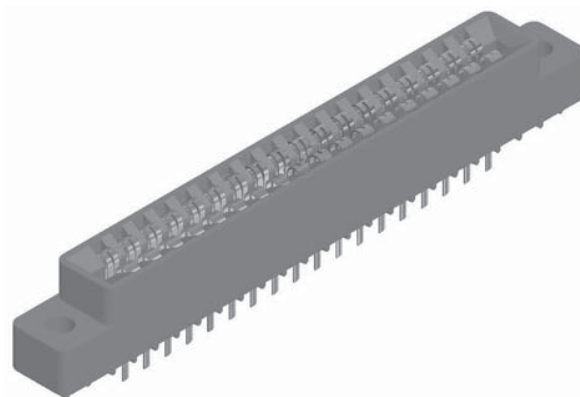
## Micro Plastics Edgcards

MICROPLASTICS  
**SULLINS**

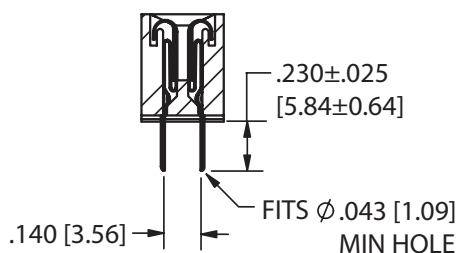
**.125" Contact Centers, .431" Insulator Height,  
Dip Solder**

### SPECIFICATIONS

- Accommodates .062" ± .008" [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- Row Spacing Available in .140" or .200" (Use Modification Code 'X9' for .200")
- P/N 04-0003-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

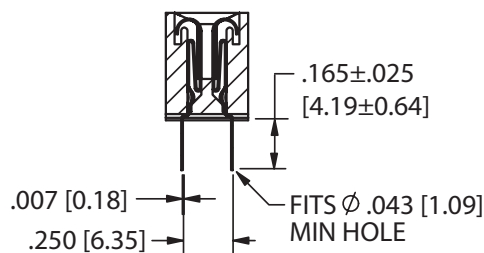


### TERMINATION TYPE



**DIP SOLDER (S)  
.140" ROW SPACING**

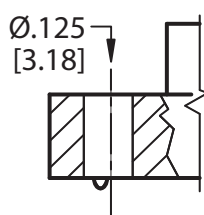
*Example P/N: MP~~S~~L-0125-10-D~~S~~-1K*



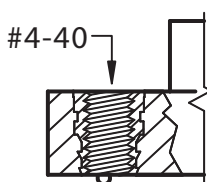
**DIP SOLDER (S)  
.250" ROW SPACING  
REQUIRES 'X9' MODIFICATION CODE**

*Example P/N: MP~~S~~L-0125-10-D~~S~~-1X9K*

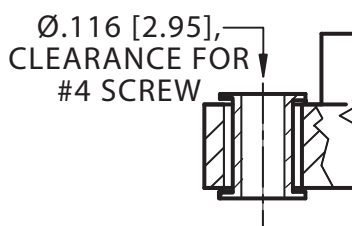
### MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



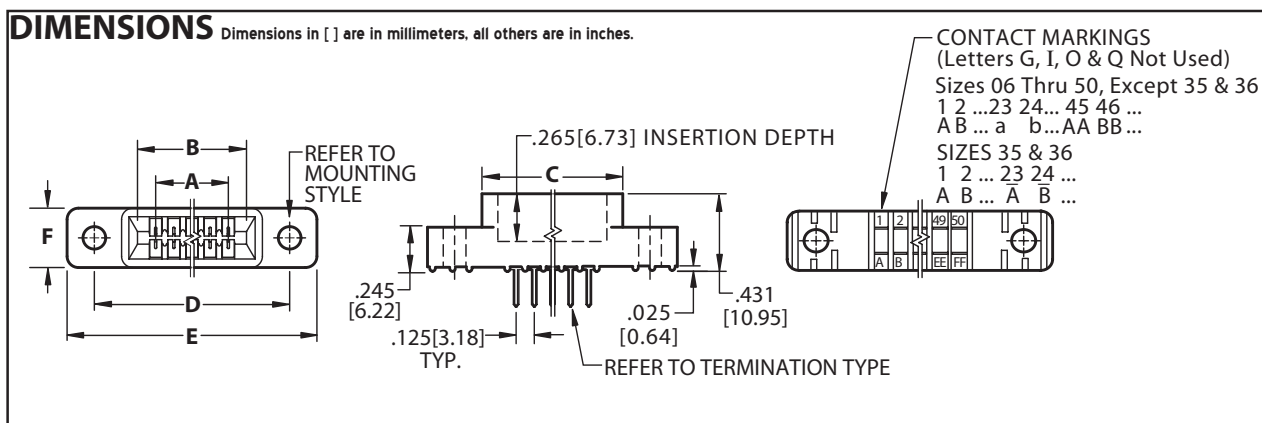
(STYLE 4)



## PART NUMBER CODING

|                                                                                                                                                                                                                                                                         |                                        |                                                |                                                                           |                                                                                                                                   |                                                                                                                                              |                                                               |                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------|
| <b>PLATING - RoHS Compliant</b><br>All Platings are Lead Free and have .000050" Nickel Underplate<br><b>Contact Surface</b><br>*MPSL = .000010" Gold<br>*MPL = .000100" Overall Pure Tin, Matte<br>MP = .000010" Overall Gold<br><b>*Requires 'K' Modification Code</b> | <b>INSULATOR MATERIAL**</b><br>0 = PBT | <b>CONTACT CENTERS</b><br>125 = .125" [3.18mm] | <b>NUMBER OF POSITIONS</b><br>Contacts Per Row (See Position Chart Below) | <b>MODIFICATION CODE**</b><br>K = Required on MPSL or MPL Plating<br>Omit for MP Plating (Overall Gold)<br>X9 = .250" Row Spacing | <b>MOUNTING STYLE</b> (See Opposite Page)<br>1 = .125" Clearance Hole<br>2 = #4-40 Threaded Insert<br>3 = Floating Bobbin<br>4 = No Mounting | <b>TERMINATION TYPE</b> (See Opposite Page)<br>S = Dip Solder | <b>READOUT</b><br>D = Dual |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------|

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**



| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | MILLIMETERS |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.005 | A±0.20      | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.13 |
| 06/12                  | 0.625  | 0.875  | 1.035  | 1.295  | 1.575  | 0.330  | 15.88       | 22.23  | 26.29  | 32.89  | 40.01  | 8.38   |
| 10/20                  | 1.125  | 1.375  | 1.535  | 1.795  | 2.075  |        | 28.58       | 34.93  | 38.99  | 45.59  | 52.71  |        |
| 14/28                  | 1.625  | 1.875  | 2.035  | 2.295  | 2.575  |        | 41.28       | 47.63  | 51.69  | 58.29  | 65.41  |        |
| 15/30                  | 1.750  | 2.000  | 2.160  | 2.420  | 2.700  |        | 44.45       | 50.80  | 54.86  | 61.47  | 68.58  |        |
| 18/36                  | 2.125  | 2.375  | 2.535  | 2.795  | 3.075  |        | 53.98       | 60.33  | 64.39  | 70.99  | 78.11  |        |
| 22/44                  | 2.625  | 2.875  | 3.035  | 3.295  | 3.575  |        | 66.68       | 73.03  | 77.09  | 83.69  | 90.81  |        |
| 28/56                  | 3.375  | 3.625  | 3.785  | 4.045  | 4.325  |        | 85.73       | 92.08  | 96.14  | 102.74 | 109.86 |        |
| 30/60                  | 3.625  | 3.875  | 4.035  | 4.295  | 4.575  |        | 92.08       | 98.43  | 102.49 | 109.09 | 116.21 |        |
| 31/62                  | 3.750  | 4.000  | 4.160  | 4.420  | 4.700  |        | 95.25       | 101.60 | 105.66 | 112.27 | 119.38 |        |
| 35/70                  | 4.250  | 4.500  | 4.660  | 4.920  | 5.200  |        | 107.95      | 114.30 | 118.36 | 124.97 | 132.08 |        |
| 36/72                  | 4.375  | 4.625  | 4.785  | 5.045  | 5.325  | 0.370  | 111.13      | 117.48 | 121.54 | 128.14 | 135.26 | 9.40   |
| 37/74                  | 4.500  | 4.750  | 4.910  | 5.170  | 5.450  |        | 114.30      | 120.65 | 124.71 | 131.32 | 138.43 |        |
| 40/80                  | 4.875  | 5.125  | 5.285  | 5.545  | 5.825  |        | 123.83      | 130.18 | 134.24 | 140.84 | 147.96 |        |
| 43/86                  | 5.250  | 5.500  | 5.660  | 5.920  | 6.200  |        | 133.35      | 139.70 | 143.76 | 150.37 | 157.48 |        |
| 44/88                  | 5.375  | 5.625  | 5.785  | 6.045  | 6.325  |        | 136.53      | 142.88 | 146.94 | 153.54 | 160.66 |        |
| 49/98                  | 6.000  | 6.250  | 6.410  | 6.670  | 6.950  |        | 152.40      | 158.75 | 162.81 | 169.42 | 176.53 |        |
| 50/100                 | 6.125  | 6.375  | 6.535  | 6.795  | 7.075  |        | 155.58      | 161.93 | 165.99 | 172.59 | 179.71 |        |



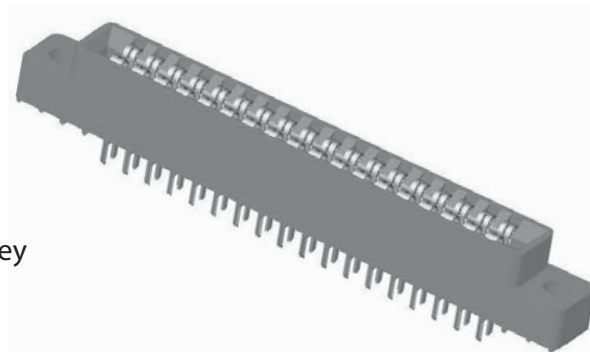
## Micro Plastics Edgecards

MICROPLASTICS  
**SULLINS**

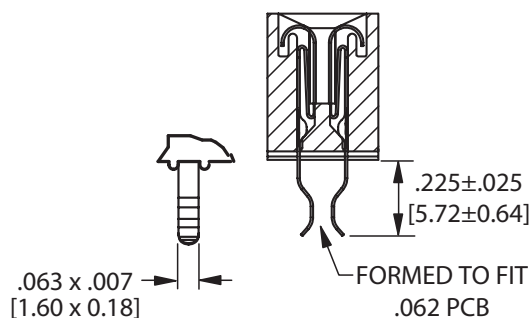
**.125" Contact Centers, .431" Insulator Height,  
Card Extender**

### SPECIFICATIONS

- Accommodates  $.062" \pm .008"$  [ $1.57 \pm 0.20$ ] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0003-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



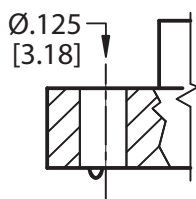
### TERMINATION TYPE



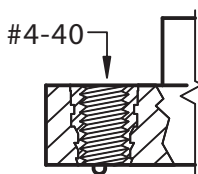
### CARD EXTENDER (SE)

**Example P/N:**  
**MPSL-0125-10-DSE-1K**

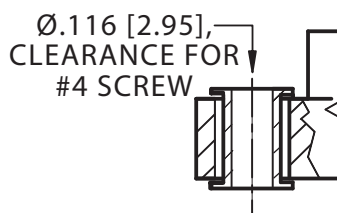
### MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



## PART NUMBER CODING

### PLATING - RoHS Compliant

All Platings are Lead Free and have .000050" Nickel Underplate

**Contact Surface**      **Termination**  
\*MPSL = .000010" Gold      .000100" Pure Tin Matte  
\*MPL = .000100" Overall Pure Tin, Matte  
MP = .000010" Overall Gold

\* Requires 'K' Modification Code  
Other Plating and thicknesses available upon request

### INSULATOR MATERIAL\*\*

0 = PBT

### CONTACT CENTERS

125 = .125" [3.18mm]

### NUMBER OF POSITIONS

Contacts Per Row (See Position Chart Below)

**MPSL - 0 125 - 10 - D SE - 1 K**

### PLATING MODIFICATION CODE\*\*

K = Required on MPSL or MPL Plating  
Omit for MP Plating (Overall Gold)

### MOUNTING STYLE (See Opposite Page)

- 1 = .125" Clearance Hole
- 2 = #4-40 Threaded Insert
- 3 = Floating Bobbin
- 4 = No Mounting

### TERMINATION TYPE (See Opposite Page)

SE = Card Extender

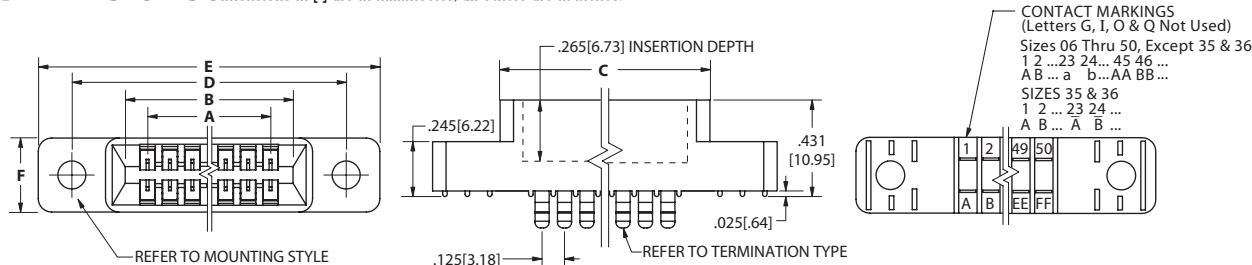
### READOUT

D = Dual

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | MILLIMETERS |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.005 | A±0.20      | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.13 |
| 06/12                  | 0.625  | 0.875  | 1.035  | 1.295  | 1.575  | 0.330  | 15.88       | 22.23  | 26.29  | 32.89  | 40.01  | 8.38   |
| 10/20                  | 1.125  | 1.375  | 1.535  | 1.795  | 2.075  |        | 28.58       | 34.93  | 38.99  | 45.59  | 52.71  |        |
| 14/28                  | 1.625  | 1.875  | 2.035  | 2.295  | 2.575  |        | 41.28       | 47.63  | 51.69  | 58.29  | 65.41  |        |
| 15/30                  | 1.750  | 2.000  | 2.160  | 2.420  | 2.700  |        | 44.45       | 50.80  | 54.86  | 61.47  | 68.58  |        |
| 18/36                  | 2.125  | 2.375  | 2.535  | 2.795  | 3.075  |        | 53.98       | 60.33  | 64.39  | 70.99  | 78.11  |        |
| 22/44                  | 2.625  | 2.875  | 3.035  | 3.295  | 3.575  |        | 66.68       | 73.03  | 77.09  | 83.69  | 90.81  |        |
| 28/56                  | 3.375  | 3.625  | 3.785  | 4.045  | 4.325  |        | 85.73       | 92.08  | 96.14  | 102.74 | 109.86 |        |
| 30/60                  | 3.625  | 3.875  | 4.035  | 4.295  | 4.575  |        | 92.08       | 98.43  | 102.49 | 109.09 | 116.21 |        |
| 31/62                  | 3.750  | 4.000  | 4.160  | 4.420  | 4.700  |        | 95.25       | 101.60 | 105.66 | 112.27 | 119.38 |        |
| 35/70                  | 4.250  | 4.500  | 4.660  | 4.920  | 5.200  |        | 107.95      | 114.30 | 118.36 | 124.97 | 132.08 |        |
| 36/72                  | 4.375  | 4.625  | 4.785  | 5.045  | 5.325  | 0.370  | 111.13      | 117.48 | 121.54 | 128.14 | 135.26 | 9.40   |
| 37/74                  | 4.500  | 4.750  | 4.910  | 5.170  | 5.450  |        | 114.30      | 120.65 | 124.71 | 131.32 | 138.43 |        |
| 40/80                  | 4.875  | 5.125  | 5.285  | 5.545  | 5.825  |        | 123.83      | 130.18 | 134.24 | 140.84 | 147.96 |        |
| 43/86                  | 5.250  | 5.500  | 5.660  | 5.920  | 6.200  |        | 133.35      | 139.70 | 143.76 | 150.37 | 157.48 |        |
| 44/88                  | 5.375  | 5.625  | 5.785  | 6.045  | 6.325  |        | 136.53      | 142.88 | 146.94 | 153.54 | 160.66 |        |
| 49/98                  | 6.000  | 6.250  | 6.410  | 6.670  | 6.950  |        | 152.40      | 158.75 | 162.81 | 169.42 | 176.53 |        |
| 50/100                 | 6.125  | 6.375  | 6.535  | 6.795  | 7.075  |        | 155.58      | 161.93 | 165.99 | 172.59 | 179.71 |        |



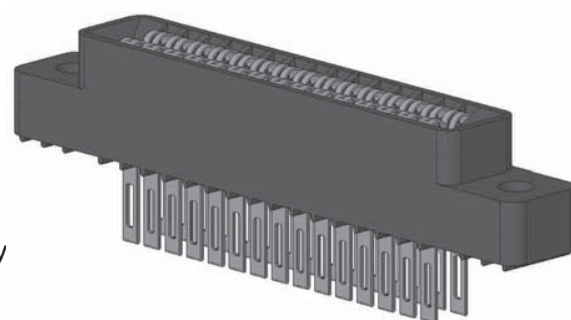
## Micro Plastics Edgecards

MICROPLASTICS  
**SULLINS**

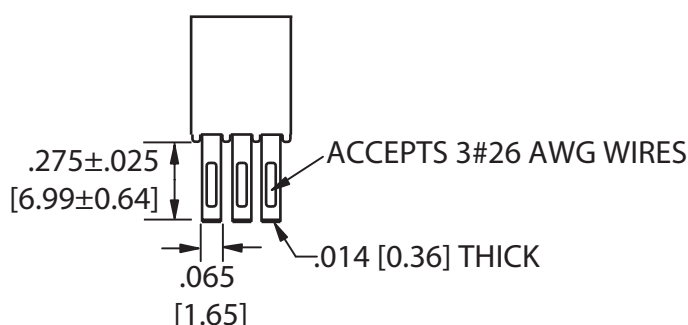
**.125" Contact Centers, .431" Insulator Height,  
Eyelet**

### SPECIFICATIONS

- Accommodates  $.062" \pm .008"$  [ $1.57 \pm 0.20$ ] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



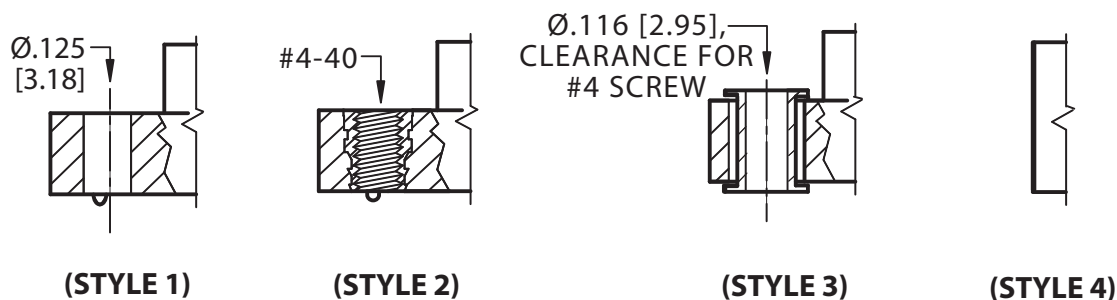
### TERMINATION TYPE



### EYELET (P)

**Example P/N:  
MP-0125-10-DP-1**

### MOUNTING STYLE





## PART NUMBER CODING

### PLATING - RoHS Compliant

All Platings are Lead Free and have .000050" Nickel Underplate

\*MPL = .000100" Overall Pure Tin, Matte

MP = .000010" Overall Gold

\* Requires 'K' Modification Code

Other Plating and thicknesses available upon request

### INSULATOR MATERIAL\*\*

0 = PBT

### CONTACT CENTERS

125 = .125" [3.18mm]

### NUMBER OF POSITIONS

Contacts Per Row (See Position Chart Below)

**MPL - 0 125 - 10 - D P - 1 K**

### PLATING MODIFICATION CODE\*\*

K = Required on Tin Plating  
Omit for MP Plating (Overall Gold)

### MOUNTING STYLE (See Opposite Page)

- 1 = .125" Clearance Hole
- 2 = #4-40 Threaded Insert
- 3 = Floating Bobbin
- 4 = No Mounting

### TERMINATION TYPE (See Opposite Page)

P = Pierced Eyelet, .014" Thick

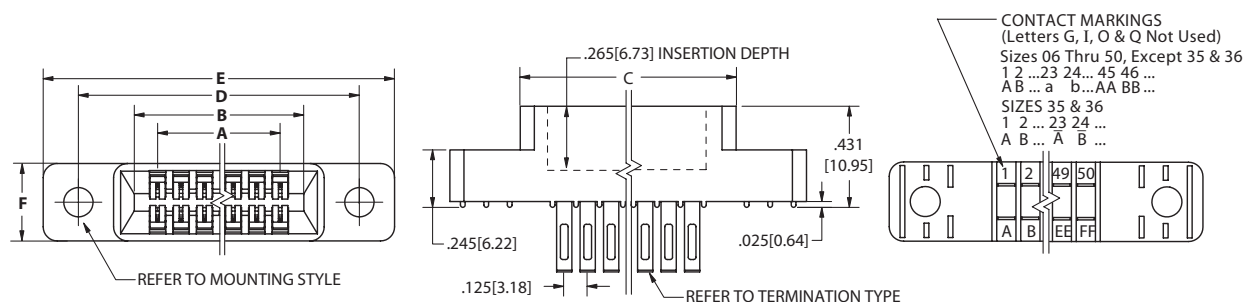
### READOUT

D = Dual

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | MILLIMETERS |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.005 | A±0.20      | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.13 |
| 06/12                  | 0.625  | 0.875  | 1.035  | 1.295  | 1.575  | 0.330  | 15.88       | 22.23  | 26.29  | 32.89  | 40.01  | 8.38   |
| 10/20                  | 1.125  | 1.375  | 1.535  | 1.795  | 2.075  |        | 28.58       | 34.93  | 38.99  | 45.59  | 52.71  |        |
| 14/28                  | 1.625  | 1.875  | 2.035  | 2.295  | 2.575  |        | 41.28       | 47.63  | 51.69  | 58.29  | 65.41  |        |
| 15/30                  | 1.750  | 2.000  | 2.160  | 2.420  | 2.700  |        | 44.45       | 50.80  | 54.86  | 61.47  | 68.58  |        |
| 18/36                  | 2.125  | 2.375  | 2.535  | 2.795  | 3.075  |        | 53.98       | 60.33  | 64.39  | 70.99  | 78.11  |        |
| 22/44                  | 2.625  | 2.875  | 3.035  | 3.295  | 3.575  |        | 66.68       | 73.03  | 77.09  | 83.69  | 90.81  |        |
| 28/56                  | 3.375  | 3.625  | 3.785  | 4.045  | 4.325  |        | 85.73       | 92.08  | 96.14  | 102.74 | 109.86 |        |
| 30/60                  | 3.625  | 3.875  | 4.035  | 4.295  | 4.575  |        | 92.08       | 98.43  | 102.49 | 109.09 | 116.21 |        |
| 31/62                  | 3.750  | 4.000  | 4.160  | 4.420  | 4.700  |        | 95.25       | 101.60 | 105.66 | 112.27 | 119.38 |        |
| 35/70                  | 4.250  | 4.500  | 4.660  | 4.920  | 5.200  |        | 107.95      | 114.30 | 118.36 | 124.97 | 132.08 |        |
| 36/72                  | 4.375  | 4.625  | 4.785  | 5.045  | 5.325  | 0.370  | 111.13      | 117.48 | 121.54 | 128.14 | 135.26 | 9.40   |
| 37/74                  | 4.500  | 4.750  | 4.910  | 5.170  | 5.450  |        | 114.30      | 120.65 | 124.71 | 131.32 | 138.43 |        |
| 40/80                  | 4.875  | 5.125  | 5.285  | 5.545  | 5.825  |        | 123.83      | 130.18 | 134.24 | 140.84 | 147.96 |        |
| 43/86                  | 5.250  | 5.500  | 5.660  | 5.920  | 6.200  |        | 133.35      | 139.70 | 143.76 | 150.37 | 157.48 |        |
| 44/88                  | 5.375  | 5.625  | 5.785  | 6.045  | 6.325  |        | 136.53      | 142.88 | 146.94 | 153.54 | 160.66 |        |
| 49/98                  | 6.000  | 6.250  | 6.410  | 6.670  | 6.950  |        | 152.40      | 158.75 | 162.81 | 169.42 | 176.53 |        |
| 50/100                 | 6.125  | 6.375  | 6.535  | 6.795  | 7.075  |        | 155.58      | 161.93 | 165.99 | 172.59 | 179.71 |        |



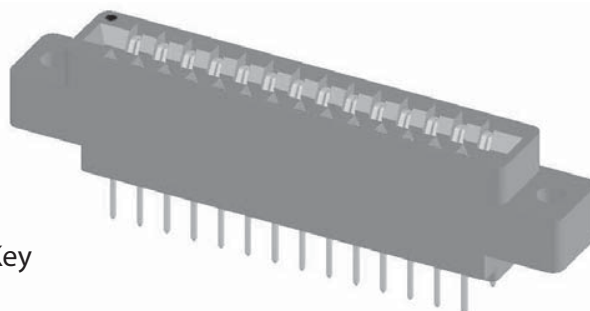
## Micro Plastics Edgards

MICROPLASTICS  
**SULLINS**

**.125" Contact Centers, .610" Insulator Height,  
Wire Wrap & Dip Solder**

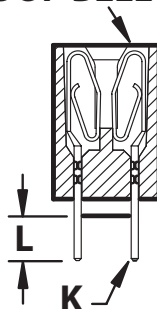
### SPECIFICATIONS

- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



### TERMINATION TYPE

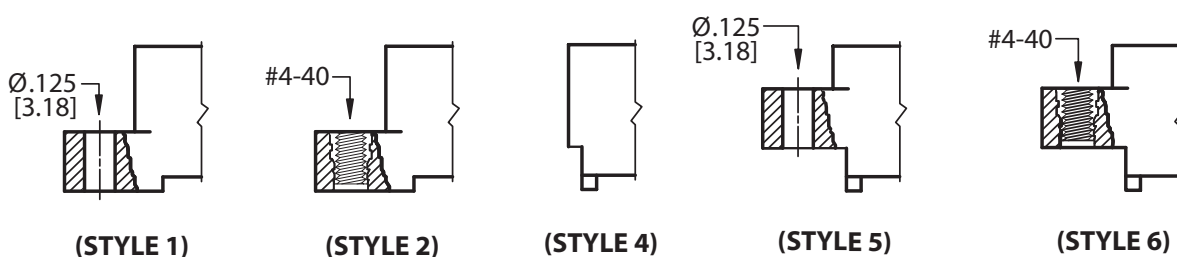
#### LOOP BELLOWS



#### LOOP BELLOWS

| TERMINATION CODE | MODIFICATION CODE | TYPE       | POST CROSS SECTION K | POST LENGTH L | FITS MIN. HOLE SIZE | EXAMPLE PART NUMBER                     |
|------------------|-------------------|------------|----------------------|---------------|---------------------|-----------------------------------------|
| R                | H                 | Dip Solder | .026 [0.66] Round    | .190 [4.83]   | .030 [0.76]         | <b><i>MPSL-0125-10-DR-1HK</i></b>       |
| R                | H(.165)           | Dip Solder | .026 [0.66] Round    | .165 [4.19]   | .030 [0.76]         | <b><i>MPSL-0125-10-DR-1HK(.165)</i></b> |
| W                | H                 | Dip Solder | .025 [0.64] Square   | .190 [4.83]   | .040 [1.02]         | <b><i>MPSL-0125-10-DW-1HK</i></b>       |
| W                | OMIT              | Wire Wrap  | .025 [0.64] Square   | .560 [14.20]  | .040 [1.02]         | <b><i>MPSL-0125-10-DW-1K</i></b>        |

### MOUNTING STYLE





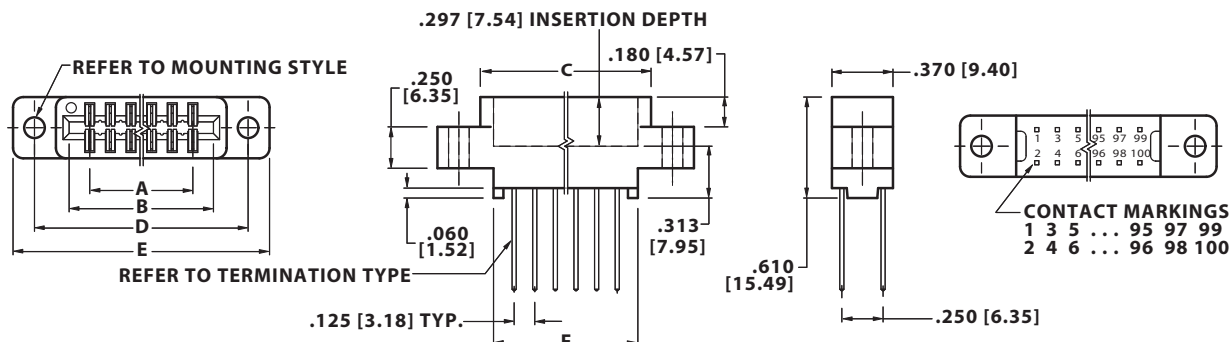
## PART NUMBER CODING

|                                                                |  |                        |            |                    |            |          |            |          |          |                                                                           |  |
|----------------------------------------------------------------|--|------------------------|------------|--------------------|------------|----------|------------|----------|----------|---------------------------------------------------------------------------|--|
| <b>PLATING - RoHS Compliant</b>                                |  | <b>MPSL - 0</b>        | <b>125</b> | <b>- 10</b>        | <b>- D</b> | <b>W</b> | <b>- 1</b> | <b>H</b> | <b>K</b> | <b>PLATING MODIFICATION CODE**</b>                                        |  |
| All Platings are Lead Free and have .000050" Nickel Underplate |  | <b>Contact Surface</b> |            | <b>Termination</b> |            |          |            |          |          | K = Required on MPSL or MPL Plating<br>Omit for MP Plating (Overall Gold) |  |
| *MPSL = .000010" Gold                                          |  |                        |            |                    |            |          |            |          |          | <b>MODIFICATION CODE**</b>                                                |  |
| *MPL = .000100" Overall Pure Tin, Matte                        |  |                        |            |                    |            |          |            |          |          | (See Opposite Page)                                                       |  |
| MP = .000010" Overall Gold                                     |  |                        |            |                    |            |          |            |          |          | H = Dip Solder .190[4.83] Tail Length<br>(.026 Round or .025 Square)      |  |
| *Requires 'K' Modification Code                                |  |                        |            |                    |            |          |            |          |          | H(.165) = Dip Solder .165[4.19] Tail Length<br>(.026 Round Only)          |  |
| <b>INSULATOR MATERIAL **</b>                                   |  |                        |            |                    |            |          |            |          |          | <b>MOUNTING STYLE</b> (See Opposite Page)                                 |  |
| 0 = PBT                                                        |  |                        |            |                    |            |          |            |          |          | 1 = .125" Clearance Hole                                                  |  |
| <b>CONTACT CENTERS</b>                                         |  |                        |            |                    |            |          |            |          |          | 2 = #4-40 Threaded Insert                                                 |  |
| 125 = .125" [3.18mm]                                           |  |                        |            |                    |            |          |            |          |          | 4 = No Mounting                                                           |  |
| <b>NUMBER OF POSITIONS</b>                                     |  |                        |            |                    |            |          |            |          |          | 5 = Raised, .125" Clearance Hole                                          |  |
| Contacts Per Row (See Position Chart Below)                    |  |                        |            |                    |            |          |            |          |          | 6 = Raised, #4-40 Threaded Insert                                         |  |
| <b>READOUT</b>                                                 |  |                        |            |                    |            |          |            |          |          | <b>TERMINATION TYPE</b> (See Opposite Page)                               |  |
| D = Dual                                                       |  |                        |            |                    |            |          |            |          |          | <b>LOOP BELLOWS</b>                                                       |  |
|                                                                |  |                        |            |                    |            |          |            |          |          | R = .026[.66mm] Round                                                     |  |
|                                                                |  |                        |            |                    |            |          |            |          |          | W = .025[.64mm] Square                                                    |  |

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | MILLIMETERS |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.015 | A±0.20      | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.38 |
| 06/12                  | 0.625  | 0.875  | 1.035  | 1.295  | 1.555  | 0.875  | 15.88       | 22.23  | 26.29  | 32.89  | 39.50  | 22.23  |
| 10/20                  | 1.125  | 1.375  | 1.535  | 1.795  | 2.055  | 1.375  | 28.58       | 34.93  | 38.99  | 45.59  | 52.20  | 34.93  |
| 14/28                  | 1.625  | 1.875  | 2.035  | 2.295  | 2.555  | 1.875  | 41.28       | 47.63  | 51.69  | 58.29  | 64.90  | 47.63  |
| 15/30                  | 1.750  | 2.000  | 2.160  | 2.420  | 2.680  | 2.000  | 44.45       | 50.80  | 54.86  | 61.47  | 68.07  | 50.80  |
| 18/36                  | 2.125  | 2.375  | 2.535  | 2.795  | 3.055  | 2.375  | 53.98       | 60.33  | 64.39  | 70.99  | 77.60  | 60.33  |
| 22/44                  | 2.625  | 2.875  | 3.035  | 3.295  | 3.555  | 2.875  | 66.68       | 73.03  | 77.09  | 83.69  | 90.30  | 73.03  |
| 24/48                  | 2.875  | 3.125  | 3.285  | 3.545  | 3.805  | 3.125  | 73.03       | 79.38  | 83.44  | 90.04  | 96.65  | 79.38  |
| 28/56                  | 3.375  | 3.625  | 3.785  | 4.045  | 4.305  | 3.625  | 85.73       | 92.08  | 96.14  | 102.74 | 109.35 | 92.08  |
| 30/60                  | 3.625  | 3.875  | 4.035  | 4.295  | 4.555  | 3.875  | 92.08       | 98.43  | 102.49 | 109.09 | 115.70 | 98.43  |
| 31/62                  | 3.750  | 4.000  | 4.160  | 4.420  | 4.680  | 4.000  | 95.25       | 101.60 | 105.66 | 112.27 | 118.87 | 101.60 |
| 32/64                  | 3.875  | 4.125  | 4.285  | 4.545  | 4.805  | 4.125  | 98.43       | 104.78 | 108.84 | 115.44 | 122.05 | 104.78 |
| 35/70                  | 4.250  | 4.500  | 4.660  | 4.920  | 5.180  | 4.500  | 107.95      | 114.30 | 118.36 | 124.97 | 131.57 | 114.30 |
| 36/72                  | 4.375  | 4.625  | 4.785  | 5.045  | 5.305  | 4.625  | 111.13      | 117.48 | 121.54 | 128.14 | 134.75 | 117.48 |
| 40/80                  | 4.875  | 5.125  | 5.285  | 5.545  | 5.805  | 5.125  | 123.83      | 130.18 | 134.24 | 140.84 | 147.45 | 130.18 |
| 43/86                  | 5.250  | 5.500  | 5.660  | 5.920  | 6.180  | 5.500  | 133.35      | 139.70 | 143.76 | 150.37 | 156.97 | 139.70 |
| 44/88                  | 5.375  | 5.625  | 5.785  | 6.045  | 6.305  | 5.625  | 136.53      | 142.88 | 146.94 | 153.54 | 160.15 | 142.88 |
| 49/98                  | 6.000  | 6.250  | 6.410  | 6.670  | 6.930  | 6.250  | 152.40      | 158.75 | 162.81 | 169.42 | 176.02 | 158.75 |
| 50/100                 | 6.125  | 6.375  | 6.535  | 6.795  | 7.055  | 6.375  | 155.58      | 161.93 | 165.99 | 172.59 | 179.20 | 161.93 |



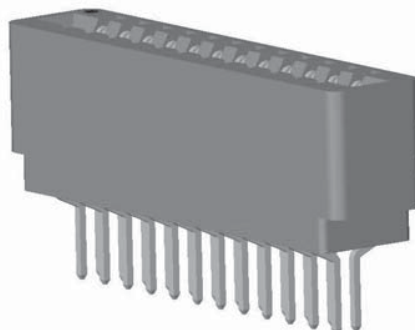
## Micro Plastics Edgecards

MICROPLASTICS  
**SULLINS**

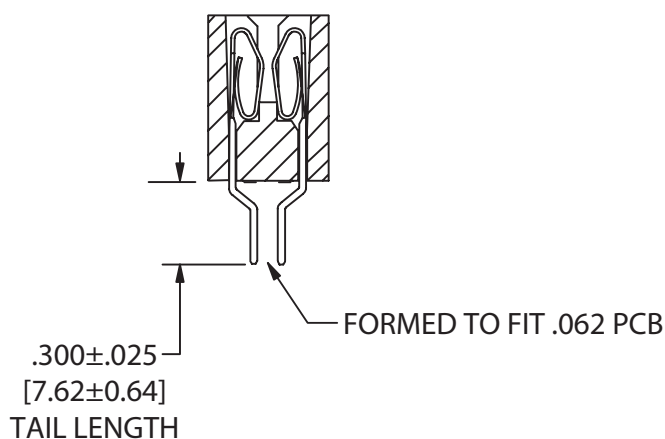
**.125" Contact Centers, .550" Insulator Height,  
.025" Square Card Extender**

### SPECIFICATIONS

- Accommodates  $.062" \pm .008"$  [ $1.57 \pm 0.20$ ] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

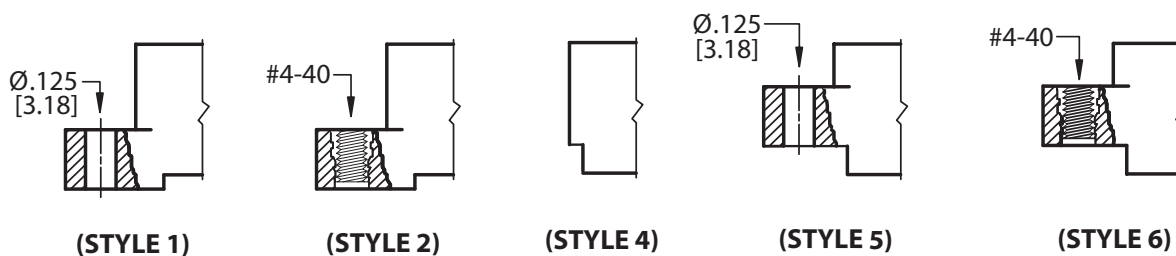


### TERMINATION TYPE



**Example P/N: MP~~SL~~-0125-10-DWE-4KTT**

### MOUNTING STYLE





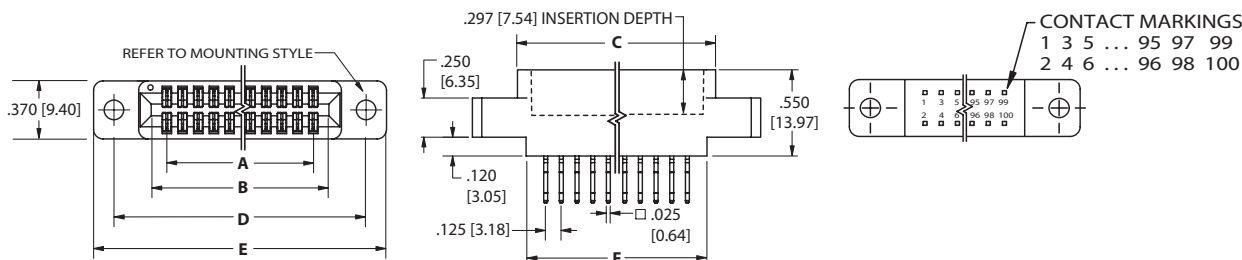
## PART NUMBER CODING

|                                                                |                                          |                                             |
|----------------------------------------------------------------|------------------------------------------|---------------------------------------------|
| <b>PLATING - RoHS Compliant</b>                                | <b>MPSL - 0 125 - 10 - D WE - 4 K TT</b> | <b>MODIFICATION CODE**</b>                  |
| All Platings are Lead Free and have .000050" Nickel Underplate |                                          | TT = No Standoffs                           |
| <b>Contact Surface</b>                                         |                                          | <b>PLATING MODIFICATION CODE**</b>          |
| *MPSL = .000010" Gold                                          |                                          | K = Required on MPSL or MPL Plating         |
| *MPL = .000100" Overall Pure Tin, Matte                        |                                          | Omit for MP Plating (Overall Gold)          |
| MP = .000010" Overall Gold                                     |                                          |                                             |
| <b>*Requires 'K' Modification Code</b>                         |                                          | <b>MOUNTING STYLE</b> (See Opposite Page)   |
| <b>INSULATOR MATERIAL **</b>                                   |                                          | 1 = .125" Clearance Hole                    |
| 0 = PBT                                                        |                                          | 2 = #4-40 Threaded Insert                   |
| <b>CONTACT CENTERS</b>                                         |                                          | 4 = No Mounting                             |
| 125 = .125" [3.18mm]                                           |                                          | 5 = Raised, .125" Clearance Hole            |
| <b>NUMBER OF POSITIONS</b>                                     |                                          | 6 = Raised, #4-40 Threaded Insert           |
| Contacts Per Row (See Position Chart Below)                    |                                          | <b>TERMINATION TYPE</b> (See Opposite Page) |
| <b>READOUT</b>                                                 |                                          | WE = Card Extender                          |
| D = Dual                                                       |                                          |                                             |

**\*\* SEE PAGES 80-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | MILLIMETERS |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.015 | A±0.20      | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.38 |
| 06/12                  | 0.625  | 0.875  | 1.035  | 1.295  | 1.555  | 0.875  | 15.88       | 22.23  | 26.29  | 32.89  | 39.50  | 22.23  |
| 10/20                  | 1.125  | 1.375  | 1.535  | 1.795  | 2.055  | 1.375  | 28.58       | 34.93  | 38.99  | 45.59  | 52.20  | 34.93  |
| 14/28                  | 1.625  | 1.875  | 2.035  | 2.295  | 2.555  | 1.875  | 41.28       | 47.63  | 51.69  | 58.29  | 64.90  | 47.63  |
| 15/30                  | 1.750  | 2.000  | 2.160  | 2.420  | 2.680  | 2.000  | 44.45       | 50.80  | 54.86  | 61.47  | 68.07  | 50.80  |
| 18/36                  | 2.125  | 2.375  | 2.535  | 2.795  | 3.055  | 2.375  | 53.98       | 60.33  | 64.39  | 70.99  | 77.60  | 60.33  |
| 22/44                  | 2.625  | 2.875  | 3.035  | 3.295  | 3.555  | 2.875  | 66.68       | 73.03  | 77.09  | 83.69  | 90.30  | 73.03  |
| 24/48                  | 2.875  | 3.125  | 3.285  | 3.545  | 3.805  | 3.125  | 73.03       | 79.38  | 83.44  | 90.04  | 96.65  | 79.38  |
| 28/56                  | 3.375  | 3.625  | 3.785  | 4.045  | 4.305  | 3.625  | 85.73       | 92.08  | 96.14  | 102.74 | 109.35 | 92.08  |
| 30/60                  | 3.625  | 3.875  | 4.035  | 4.295  | 4.555  | 3.875  | 92.08       | 98.43  | 102.49 | 109.09 | 115.70 | 98.43  |
| 31/62                  | 3.750  | 4.000  | 4.160  | 4.420  | 4.680  | 4.000  | 95.25       | 101.60 | 105.66 | 112.27 | 118.87 | 101.60 |
| 32/64                  | 3.875  | 4.125  | 4.285  | 4.545  | 4.805  | 4.125  | 98.43       | 104.78 | 108.84 | 115.44 | 122.05 | 104.78 |
| 35/70                  | 4.250  | 4.500  | 4.660  | 4.920  | 5.180  | 4.500  | 107.95      | 114.30 | 118.36 | 124.97 | 131.57 | 114.30 |
| 36/72                  | 4.375  | 4.625  | 4.785  | 5.045  | 5.305  | 4.625  | 111.13      | 117.48 | 121.54 | 128.14 | 134.75 | 117.48 |
| 40/80                  | 4.875  | 5.125  | 5.285  | 5.545  | 5.805  | 5.125  | 123.83      | 130.18 | 134.24 | 140.84 | 147.45 | 130.18 |
| 43/86                  | 5.250  | 5.500  | 5.660  | 5.920  | 6.180  | 5.500  | 133.35      | 139.70 | 143.76 | 150.37 | 156.97 | 139.70 |
| 44/88                  | 5.375  | 5.625  | 5.785  | 6.045  | 6.305  | 5.625  | 136.53      | 142.88 | 146.94 | 153.54 | 160.15 | 142.88 |
| 49/98                  | 6.000  | 6.250  | 6.410  | 6.670  | 6.930  | 6.250  | 152.40      | 158.75 | 162.81 | 169.42 | 176.02 | 158.75 |
| 50/100                 | 6.125  | 6.375  | 6.535  | 6.795  | 7.055  | 6.375  | 155.58      | 161.93 | 165.99 | 172.59 | 179.20 | 161.93 |



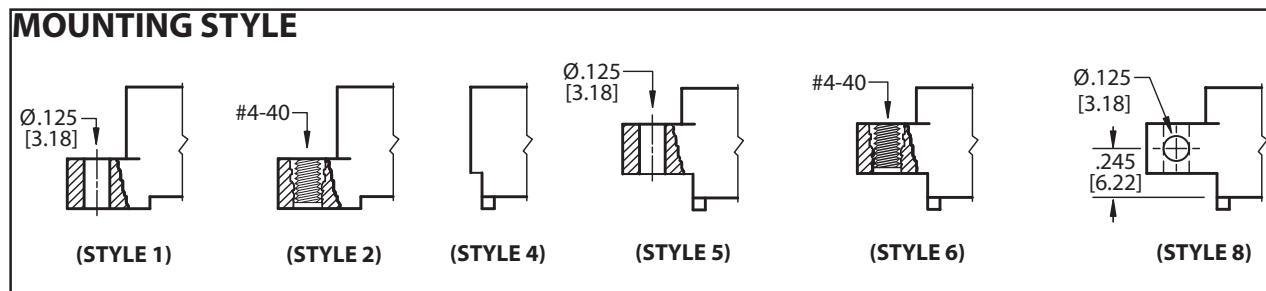
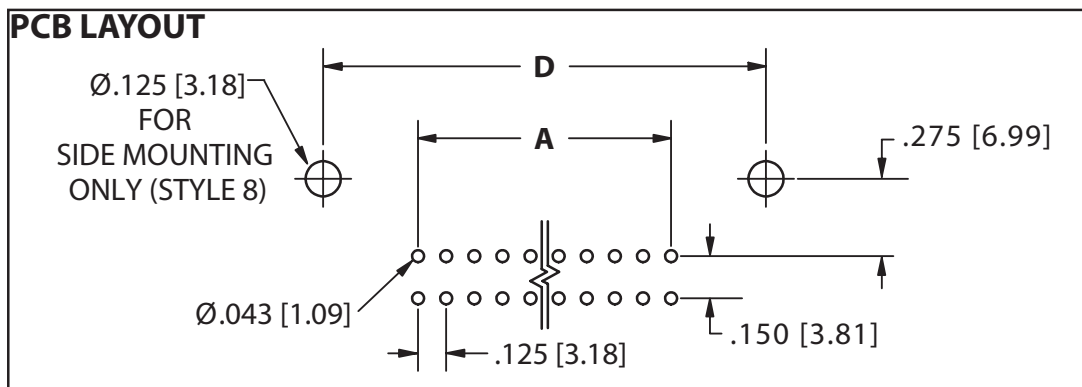
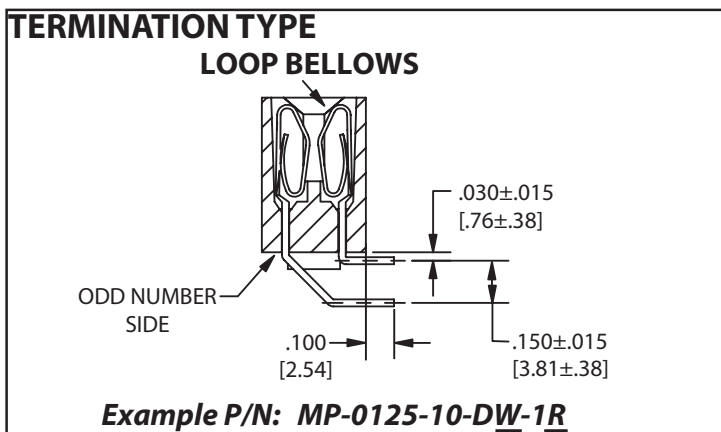
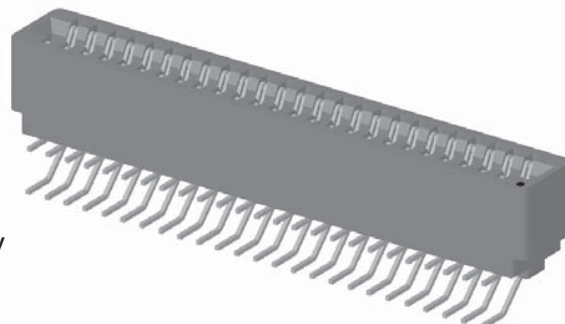
## Micro Plastics Edgards

MICROPLASTICS  
**SULLINS**

**.125" Contact Centers, .610" Insulator Height,  
Right Angle**

### SPECIFICATIONS

- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory





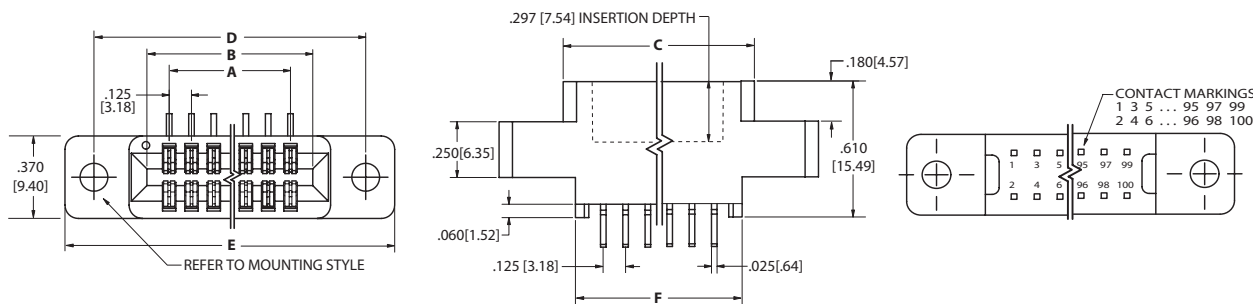
## PART NUMBER CODING

|                                                                |                                                 |
|----------------------------------------------------------------|-------------------------------------------------|
| <b>PLATING - RoHS Compliant</b>                                | <b>MODIFICATION CODE**</b>                      |
| All Platings are Lead Free and have .000050" Nickel Underplate | R = Right Angle                                 |
| <b>Contact Surface</b>                                         | <b>PLATING MODIFICATION CODE**</b>              |
| <b>Termination</b>                                             | K = Required on MP/SL or MPL Plating            |
| *MP/SL = .000010" Gold .000100" Pure Tin, Matte                | Omit for MP Plating (Overall Gold)              |
| *MPL = .000100" Overall Pure Tin, Matte                        |                                                 |
| MP = .000010" Overall Gold                                     |                                                 |
| *Requires 'K' Modification Code                                |                                                 |
| <b>INSULATOR MATERIAL**</b>                                    | <b>MOUNTING STYLE</b> (See Opposite Page)       |
| 0 = PBT                                                        | 1 = .125" Clearance Hole                        |
| <b>CONTACT CENTERS</b>                                         | 2 = #4-40 Threaded Insert                       |
| 125 = .125" [3018mm]                                           | 4 = No Mounting                                 |
| <b>NUMBER OF POSITIONS</b>                                     | 5 = Raised, .125" Clearance Hole                |
| Contacts Per Row (See Position Chart Below)                    | 6 = Raised, #4-40 Threaded Insert               |
| <b>READOUT</b>                                                 | 8 = Raised, Side Mounting, .125" Clearance Hole |
| D = Dual                                                       | <b>TERMINATION TYPE</b> (See Opposite Page)     |
|                                                                | <b>LOOP BELLOWS</b>                             |
|                                                                | W = .025 [.64] Square                           |

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | MILLIMETERS |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.015 | A±.020      | B±.020 | C±.038 | D±.025 | E±.051 | F±.038 |
| 06/12                  | 0.625  | 0.875  | 1.035  | 1.295  | 1.555  | 0.875  | 15.88       | 22.23  | 26.29  | 32.89  | 39.50  | 22.23  |
| 10/20                  | 1.125  | 1.375  | 1.535  | 1.795  | 2.055  | 1.375  | 28.58       | 34.93  | 38.99  | 45.59  | 52.20  | 34.93  |
| 14/28                  | 1.625  | 1.875  | 2.035  | 2.295  | 2.555  | 1.875  | 41.28       | 47.63  | 51.69  | 58.29  | 64.90  | 47.63  |
| 15/30                  | 1.750  | 2.000  | 2.160  | 2.420  | 2.680  | 2.000  | 44.45       | 50.80  | 54.86  | 61.47  | 68.07  | 50.80  |
| 18/36                  | 2.125  | 2.375  | 2.535  | 2.795  | 3.055  | 2.375  | 53.98       | 60.33  | 64.39  | 70.99  | 77.60  | 60.33  |
| 22/44                  | 2.625  | 2.875  | 3.035  | 3.295  | 3.555  | 2.875  | 66.68       | 73.03  | 77.09  | 83.69  | 90.30  | 73.03  |
| 24/48                  | 2.875  | 3.125  | 3.285  | 3.545  | 3.805  | 3.125  | 73.03       | 79.38  | 83.44  | 90.04  | 96.65  | 79.38  |
| 28/56                  | 3.375  | 3.625  | 3.785  | 4.045  | 4.305  | 3.625  | 85.73       | 92.08  | 96.14  | 102.74 | 109.35 | 92.08  |
| 30/60                  | 3.625  | 3.875  | 4.035  | 4.295  | 4.555  | 3.875  | 92.08       | 98.43  | 102.49 | 109.09 | 115.70 | 98.43  |
| 31/62                  | 3.750  | 4.000  | 4.160  | 4.420  | 4.680  | 4.000  | 95.25       | 101.60 | 105.66 | 112.27 | 118.87 | 101.60 |
| 32/64                  | 3.875  | 4.125  | 4.285  | 4.545  | 4.805  | 4.125  | 98.43       | 104.78 | 108.84 | 115.44 | 122.05 | 104.78 |
| 35/70                  | 4.250  | 4.500  | 4.660  | 4.920  | 5.180  | 4.500  | 107.95      | 114.30 | 118.36 | 124.97 | 131.57 | 114.30 |
| 36/72                  | 4.375  | 4.625  | 4.785  | 5.045  | 5.305  | 4.625  | 111.13      | 117.48 | 121.54 | 128.14 | 134.75 | 117.48 |
| 40/80                  | 4.875  | 5.125  | 5.285  | 5.545  | 5.805  | 5.125  | 123.83      | 130.18 | 134.24 | 140.84 | 147.45 | 130.18 |
| 43/86                  | 5.250  | 5.500  | 5.660  | 5.920  | 6.180  | 5.500  | 133.35      | 139.70 | 143.76 | 150.37 | 156.97 | 139.70 |
| 44/88                  | 5.375  | 5.625  | 5.785  | 6.045  | 6.305  | 5.625  | 136.53      | 142.88 | 146.94 | 153.54 | 160.15 | 142.88 |
| 49/98                  | 6.000  | 6.250  | 6.410  | 6.670  | 6.930  | 6.250  | 152.40      | 158.75 | 162.81 | 169.42 | 176.02 | 158.75 |
| 50/100                 | 6.125  | 6.375  | 6.535  | 6.795  | 7.055  | 6.375  | 155.58      | 161.93 | 165.99 | 172.59 | 179.20 | 161.93 |



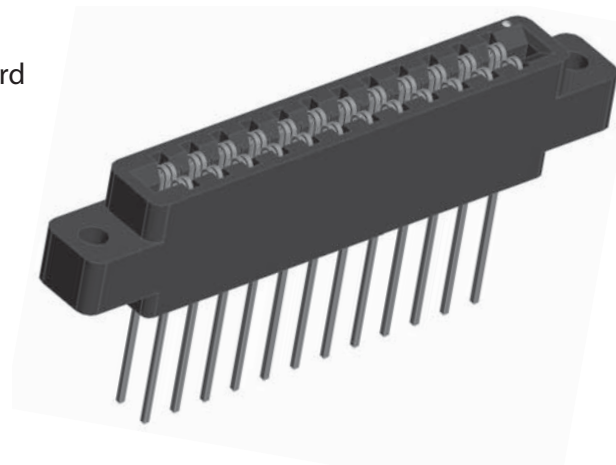
## Micro Plastics Edgecards

MICROPLASTICS  
**SULLINS**

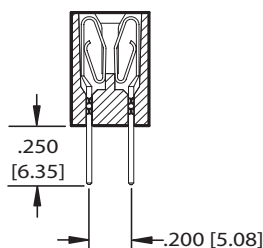
**.150" Contact Centers, .550" Insulator Height,  
.025" Square & .026" Round Dip Solder**

### SPECIFICATIONS

- Accommodates .062" ± .008" [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

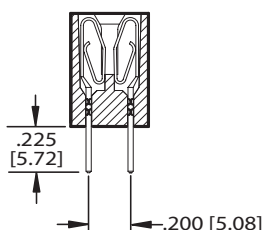


### TERMINATION TYPE



#### .250 [6.35] TAIL LENGTH

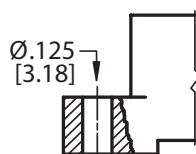
| Termination Code | Modification Code | Termination Type | Fits Min. Hole Size | Example Part Number        |
|------------------|-------------------|------------------|---------------------|----------------------------|
| W                | H                 | .025[.64] Square | .040[1.02]          | <b>MPSL-0150-18-DW-1HK</b> |
| R                | H                 | .026[.66] Round  | .030[0.76]          | <b>MPSL-0150-18-DR-1HK</b> |



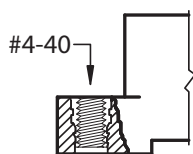
#### .225 [5.72] TAIL LENGTH

| Termination Code | Modification Code | Termination Type | Fits Min. Hole Size | Example Part Number              |
|------------------|-------------------|------------------|---------------------|----------------------------------|
| R                | H(.225)           | .026[.66] Round  | .030[0.76]          | <b>MPSL-0150-18-DR-1HK(.225)</b> |

### MOUNTING STYLE



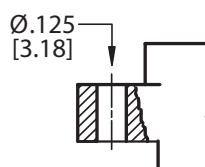
(STYLE 1)



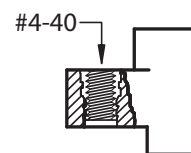
(STYLE 2)



(STYLE 4)



(STYLE 5)



(STYLE 6)



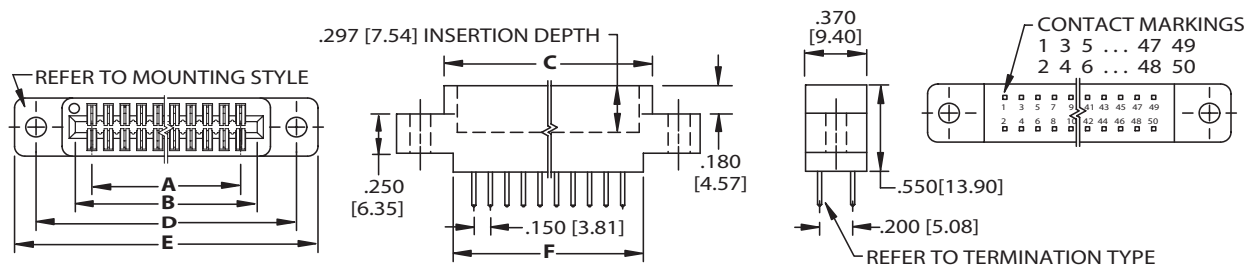
## PART NUMBER CODING

|                                                                |  |                                                                          |  |
|----------------------------------------------------------------|--|--------------------------------------------------------------------------|--|
| <b>PLATING - RoHS Compliant</b>                                |  | <b>PLATING MODIFICATION CODE**</b>                                       |  |
| All Platings are Lead Free and have .000050" Nickle Underplate |  | K = Required on MPL or MPL Plating<br>Omit for MP Plating (Overall Gold) |  |
| <b>Termination</b>                                             |  | <b>MODIFICATION CODE**</b>                                               |  |
| *MPSL = .000010" Gold                                          |  | (See Opposite Page)                                                      |  |
| *MPL = .000100" Overall Pure Tin, Matte                        |  | H = Dip Solder .250[6.35] Tail Length<br>(.026 Round or .025 Square)     |  |
| MP = .000010" Overall Gold                                     |  | H(.225) = Dip Solder .225[5.72] Tail Length<br>(.026 Round Only)         |  |
| <b>* Requires 'K' Modification Code</b>                        |  | <b>MOUNTING STYLE</b> (See Opposite Page)                                |  |
| <b>INSULATOR MATERIAL**</b>                                    |  | 1 = .125" Clearance Hole                                                 |  |
| 0 = PBT                                                        |  | 2 = #4-40 Threaded Insert                                                |  |
| <b>CONTACT CENTERS</b>                                         |  | 4 = No Mounting                                                          |  |
| 150 = .150"[3.81mm]                                            |  | 5 = Raised, .125" Clearance Hole                                         |  |
| <b>NUMBER OF POSITIONS</b>                                     |  | 6 = Raised, #4-40 Threaded Insert                                        |  |
| Contacts Per Row (See Position Chart Below)                    |  | <b>TERMINATION TYPE</b> (See Opposite Page)                              |  |
| <b>READOUT</b>                                                 |  | <b>LOOP BELLOWS</b>                                                      |  |
| D = Dual                                                       |  | (MPSL Plating Code Only)                                                 |  |
|                                                                |  | W = .025[.64mm] Square                                                   |  |
|                                                                |  | R = .026[.66mm] Round                                                    |  |

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.010 | B±.010 | C±.015 | D±.015 | E±.020 | F±.015 | A±0.25        | B±0.25 | C±0.38 | D±0.38 | E±0.51 | F±0.20 |
| 18/36                  | 2.550  | 2.850  | 2.990  | 3.300  | 3.550  | 2.800  | 64.77         | 72.39  | 75.95  | 83.82  | 90.17  | 71.12  |
| 25/50                  | 3.600  | 3.900  | 4.040  | -----  | -----  | 3.850  | 91.44         | 99.06  | 102.62 | -----  | -----  | 97.79  |
| 26/52                  | 3.750  | 4.050  | 4.190  | 4.500  | 4.750  | 4.000  | 95.25         | 102.87 | 106.43 | 114.30 | 120.65 | 101.60 |
| 28/56                  | 4.050  | 4.350  | 4.490  | 4.800  | 5.050  | 4.300  | 102.87        | 110.49 | 114.05 | 121.92 | 128.27 | 109.22 |
| 32/64                  | 4.650  | 4.950  | 5.090  | -----  | -----  | 4.900  | 118.11        | 125.73 | 129.29 | -----  | -----  | 124.46 |
| 50/100                 | 7.350  | 7.650  | 7.800  | -----  | -----  | 7.600  | 186.69        | 194.31 | 198.12 | -----  | -----  | 193.04 |



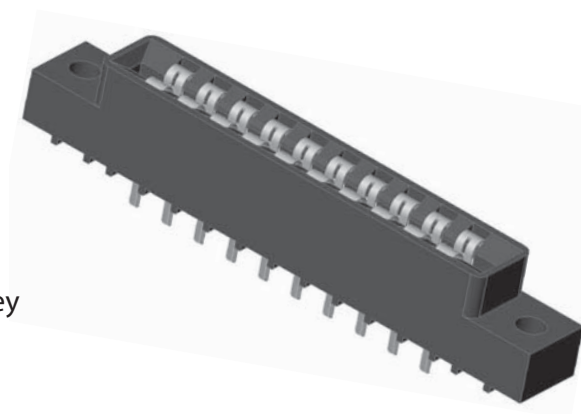
## Micro Plastics Edgcards

MICROPLASTICS  
**SULLINS**

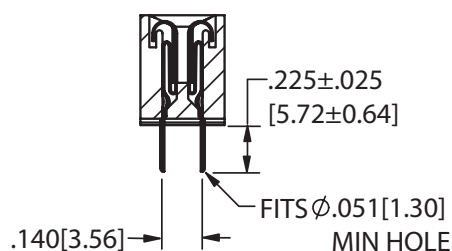
**.156" Contact Centers, .431" Insulator Height,  
Dip Solder**

### SPECIFICATIONS

- Accommodates  $.062" \pm .008"$  [ $1.57 \pm 0.20$ ] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- Row Spacing Available in .140" or .200"  
(Use Modification Code 'E9' or 'X9' for .200")
- P/N 04-0003-000 for In Between Contact Position Key  
P/N 04-0002-000 for In Contact Position Key  
See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

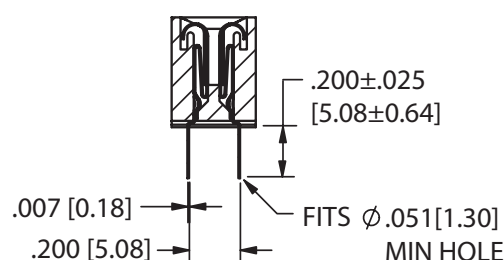


### TERMINATION TYPE



**DIP SOLDER (S)  
.140" ROW SPACING**

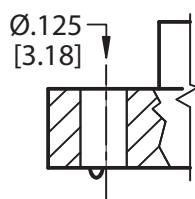
*Example P/N: MP~~SL~~-0156-10-DS-1K*



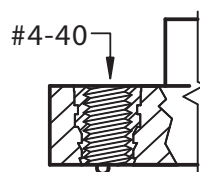
**DIP SOLDER (S)  
.200" ROW SPACING  
REQUIRES 'X9' MODIFICATION CODE**

*Example P/N: MP~~SL~~-0156-10-DS-1X9K*

### MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



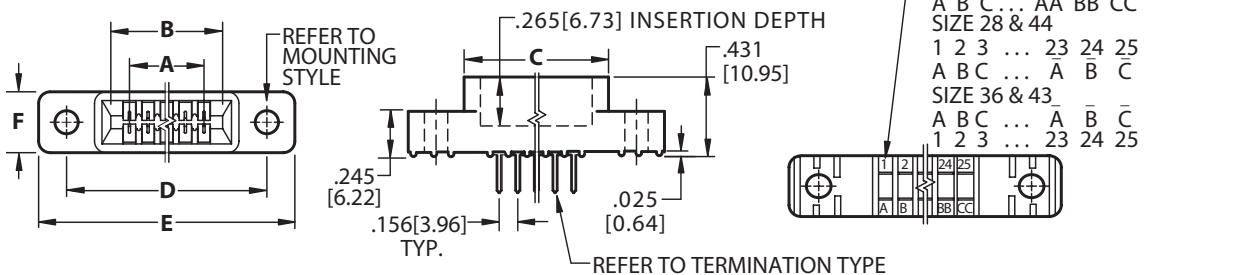
## PART NUMBER CODING

|                                                                                                                                                                                                                                                                         |                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PLATING - RoHS Compliant</b><br>All Platings are Lead Free and have .000050" Nickel Underplate<br><b>Contact Surface</b><br>*MPSL = .000010" Gold<br>*MPL = .000100" Overall Pure Tin, Matte<br>MP = .000010" Overall Gold<br><b>*Requires 'K' Modification Code</b> | <b>MODIFICATION CODE**</b><br>K = Required on MPSL or MPL Plating<br>Omit for MP Plating (Overall Gold)<br>E9, X9 = .200" Row Spacing        |
| <b>INSULATOR MATERIAL **</b><br>0 = PBT                                                                                                                                                                                                                                 | <b>MOUNTING STYLE</b> (See Opposite Page)<br>1 = .125" Clearance Hole<br>2 = #4-40 Threaded Insert<br>3 = Floating Bobbin<br>4 = No Mounting |
| <b>CONTACT CENTERS</b><br>156 = .156" [3.96mm]                                                                                                                                                                                                                          | <b>TERMINATION TYPE</b> (See Opposite Page)<br>S = Dip Solder                                                                                |
| <b>NUMBER OF POSITIONS</b><br>Contacts Per Row (See Position Chart Below)                                                                                                                                                                                               | <b>READOUT</b><br>D = Dual                                                                                                                   |

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |              |       | F±.005 | [MILLIMETERS] |        |        |              |        |        |
|------------------------|--------|--------|--------|--------------|-------|--------|---------------|--------|--------|--------------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010       | E MAX |        | A±0.20        | B±0.20 | C±0.38 | D±0.25       | E MAX  | F±0.13 |
| 02/04                  | 0.156  | 0.476  | 0.596  | 'N' MOUNTING |       | 0.325  | 3.96          | 12.09  | 15.14  | 'N' MOUNTING |        | 8.26   |
| 03/06                  | 0.312  | 0.632  | 0.752  | 'N' MOUNTING |       |        | 7.92          | 16.05  | 19.10  | 'N' MOUNTING |        |        |
| 06/12                  | 0.780  | 1.100  | 1.220  | 1.533        | 1.902 |        | 19.81         | 27.94  | 30.99  | 38.94        | 48.31  |        |
| 08/16                  | 1.092  | 1.412  | 1.532  | 1.845        | 2.214 |        | 27.74         | 35.86  | 38.91  | 46.86        | 56.24  |        |
| 10/20                  | 1.404  | 1.724  | 1.844  | 2.157        | 2.526 |        | 35.66         | 43.79  | 46.84  | 54.79        | 64.16  |        |
| 11/22                  | 1.560  | 1.880  | 2.000  | 2.313        | 2.682 |        | 39.62         | 47.75  | 50.80  | 58.75        | 68.12  |        |
| 12/24                  | 1.716  | 2.036  | 2.156  | 2.469        | 2.838 |        | 43.59         | 51.71  | 54.76  | 62.71        | 72.09  |        |
| 15/30                  | 2.184  | 2.504  | 2.624  | 2.937        | 3.306 |        | 55.47         | 63.60  | 66.65  | 74.60        | 83.97  |        |
| 18/36                  | 2.652  | 2.972  | 3.092  | 3.405        | 3.774 |        | 67.36         | 75.49  | 78.54  | 86.49        | 95.86  |        |
| 22/44                  | 3.276  | 3.596  | 3.716  | 4.029        | 4.398 |        | 83.21         | 91.34  | 94.39  | 102.34       | 111.71 |        |
| 24/48                  | 3.588  | 3.908  | 4.028  | 4.341        | 4.710 | 91.14  | 99.26         | 102.31 | 110.26 | 119.63       |        |        |
| 25/50                  | 3.744  | 4.064  | 4.184  | 4.497        | 4.866 | 95.10  | 103.23        | 106.27 | 114.22 | 123.60       |        |        |
| 28/56                  | 4.212  | 4.532  | 4.652  | 4.965        | 5.334 | 106.98 | 115.11        | 118.16 | 126.11 | 135.48       |        |        |
| 36/72                  | 5.460  | 5.780  | 5.900  | 6.213        | 6.582 | 138.68 | 146.81        | 149.86 | 157.81 | 167.18       |        |        |
| 43/86                  | 6.552  | 6.872  | 6.992  | 7.305        | 7.674 | 166.42 | 174.55        | 177.60 | 185.55 | 194.92       |        |        |
| 44/88                  | 6.708  | 7.028  | 7.148  | 7.461        | 7.830 | 170.38 | 178.51        | 181.56 | 189.51 | 198.88       |        |        |



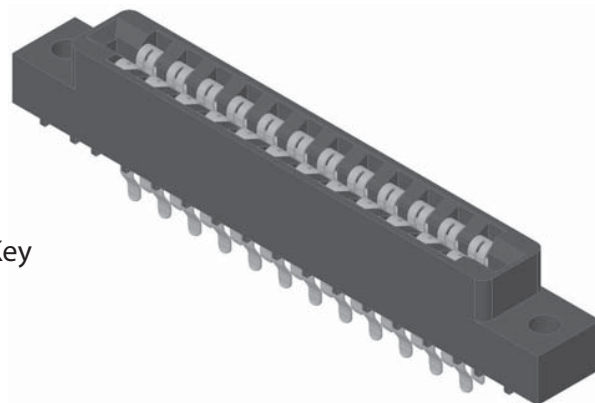
## Micro Plastics Edgards

MICROPLASTICS  
**SULLINS**

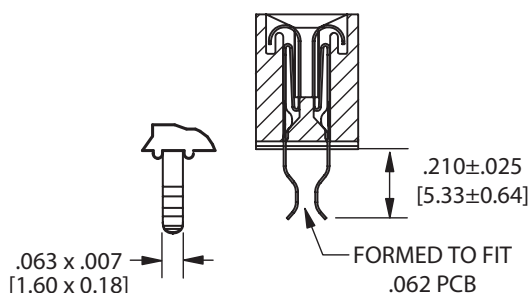
### .156" Contact Centers, .431" Insulator Height, Card Extender

#### SPECIFICATIONS

- Accommodates .062" ± .008" [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0003-000 for In Between Contact Position Key  
P/N 04-0002-000 for In Contact Position Key  
See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

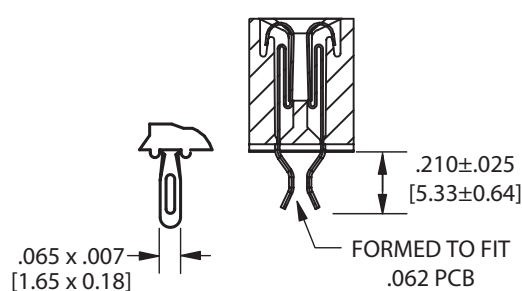


#### TERMINATION TYPE



#### CARD EXTENDER (SE)

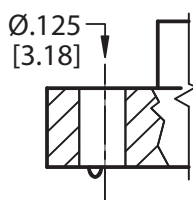
Example P/N: **MPSL-0156-10-DSE-1K**



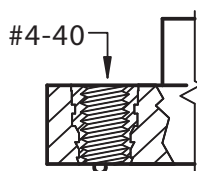
#### ECONOMY EYELET CARD EXTENDER (PE)

Example P/N: **EMPL-0156-10-DPE-1K**

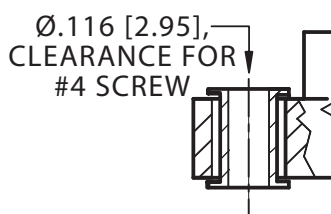
#### MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



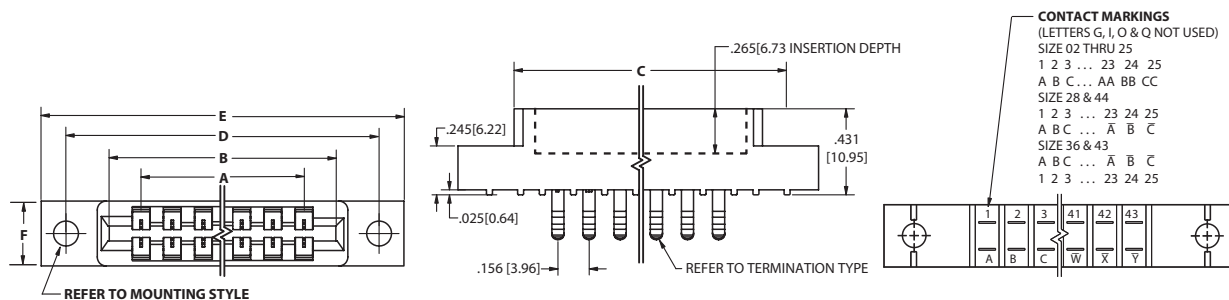
## PART NUMBER CODING

|                                                                                                                                                                                                                                                                                 |                                       |                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PLATING - RoHS Compliant</b><br>All Platings are Lead Free and have .000050" Nickel Underplate                                                                                                                                                                               | <b>MPSL - 0 156 - 10 - D SE - 1 K</b> | <b>PLATING MODIFICATION CODE**</b><br>K = Required on MPSL or MPL Plating<br>Omit for MP Plating (Overall Gold)                                                                            |
| <b>Contact Surface</b><br>*MPSL = .000010" Gold<br>*MPL = .000100" Overall Pure Tin, Matte<br>MP = .000010" Overall Gold                                                                                                                                                        |                                       | <b>MOUNTING STYLE</b> (See Opposite Page)<br>1 = .125" Clearance Hole<br>2 = #4-40 Threaded Insert<br>3 = Floating Bobbin<br>4 = No Mounting                                               |
| <b>Termination</b><br>Platings that start with 'E' are for Economy Eyelet Only<br>*EMPSL = .000010" Gold<br>*EMPL = .000100" Overall Pure Tin, Matte<br>EMP = .000010" Overall Gold<br>* Requires 'K' Modification Code<br>Other Plating and thicknesses available upon request |                                       | <b>TERMINATION TYPE</b> (See Opposite Page)<br>SE = Card Extender<br>Requires Part Number to start with 'M'<br>PE = Economy Eyelet Card Extender<br>Requires Part Number to start with 'E' |
| <b>INSULATOR MATERIAL**</b><br>0 = PBT                                                                                                                                                                                                                                          |                                       | <b>READOUT</b><br>D = Dual                                                                                                                                                                 |
| <b>CONTACT CENTERS</b><br>156 = .156" [3.96mm]                                                                                                                                                                                                                                  |                                       |                                                                                                                                                                                            |
| <b>NUMBER OF POSITIONS</b><br>Contacts Per Row (See Position Chart Below)                                                                                                                                                                                                       |                                       |                                                                                                                                                                                            |

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |              |       |        | [MILLIMETERS] |        |        |              |        |        |
|------------------------|--------|--------|--------|--------------|-------|--------|---------------|--------|--------|--------------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010       | E MAX | F±.005 | A±0.20        | B±0.20 | C±0.38 | D±0.25       | E MAX  | F±0.13 |
| 02/04                  | 0.156  | 0.476  | 0.596  | 'N' MOUNTING |       | 0.325  | 3.96          | 12.09  | 15.14  | 'N' MOUNTING |        | 8.26   |
| 03/06                  | 0.312  | 0.632  | 0.752  | 'N' MOUNTING |       |        | 7.92          | 16.05  | 19.10  | 'N' MOUNTING |        |        |
| 06/12                  | 0.780  | 1.100  | 1.220  | 1.533        | 1.902 |        | 19.81         | 27.94  | 30.99  | 38.94        | 48.31  |        |
| 08/16                  | 1.092  | 1.412  | 1.532  | 1.845        | 2.214 |        | 27.74         | 35.86  | 38.91  | 46.86        | 56.24  |        |
| 10/20                  | 1.404  | 1.724  | 1.844  | 2.157        | 2.526 |        | 35.66         | 43.79  | 46.84  | 54.79        | 64.16  |        |
| 11/22                  | 1.560  | 1.880  | 2.000  | 2.313        | 2.682 |        | 39.62         | 47.75  | 50.80  | 58.75        | 68.12  |        |
| 12/24                  | 1.716  | 2.036  | 2.156  | 2.469        | 2.838 |        | 43.59         | 51.71  | 54.76  | 62.71        | 72.09  |        |
| 15/30                  | 2.184  | 2.504  | 2.624  | 2.937        | 3.306 |        | 55.47         | 63.60  | 66.65  | 74.60        | 83.97  |        |
| 18/36                  | 2.652  | 2.972  | 3.092  | 3.405        | 3.774 |        | 67.36         | 75.49  | 78.54  | 86.49        | 95.86  |        |
| 22/44                  | 3.276  | 3.596  | 3.716  | 4.029        | 4.398 |        | 83.21         | 91.34  | 94.39  | 102.34       | 111.71 |        |
| 24/48                  | 3.588  | 3.908  | 4.028  | 4.341        | 4.710 | 91.14  | 99.26         | 102.31 | 110.26 | 119.63       |        |        |
| 25/50                  | 3.744  | 4.064  | 4.184  | 4.497        | 4.866 | 95.10  | 103.23        | 106.27 | 114.22 | 123.60       |        |        |
| 28/56                  | 4.212  | 4.532  | 4.652  | 4.965        | 5.334 | 106.98 | 115.11        | 118.16 | 126.11 | 135.48       |        |        |
| 36/72                  | 5.460  | 5.780  | 5.900  | 6.213        | 6.582 | 0.438  | 138.68        | 146.81 | 149.86 | 157.81       | 167.18 |        |
| 43/86                  | 6.552  | 6.872  | 6.992  | 7.305        | 7.674 | 0.500  | 166.42        | 174.55 | 177.60 | 185.55       | 194.92 |        |
| 44/88                  | 6.708  | 7.028  | 7.148  | 7.461        | 7.830 | 0.500  | 170.38        | 178.51 | 181.56 | 189.51       | 198.88 |        |



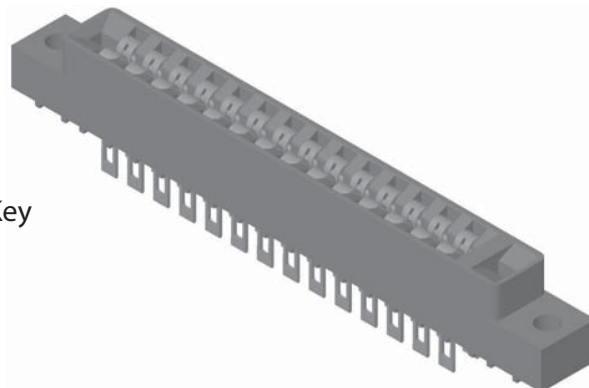
## Micro Plastics Edgcards

MICROPLASTICS  
**SULLINS**

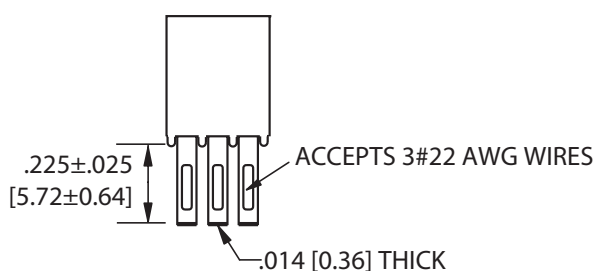
**.156" Contact Centers, .431" Insulator Height,  
Eyelet**

### SPECIFICATIONS

- Accommodates  $.062" \pm .008"$  [ $1.57 \pm 0.20$ ] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0003-000 for In Between Contact Position Key  
P/N 04-0002-000 for In Contact Position Key  
See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

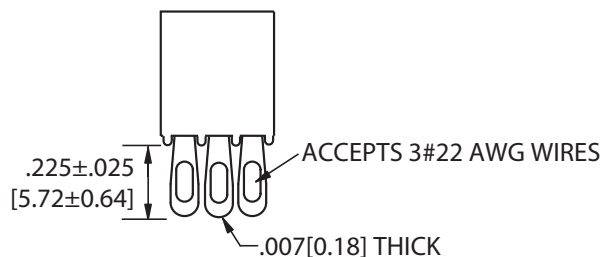


### TERMINATION TYPE



#### EYELET (P)

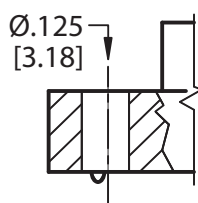
Example P/N: MP-0156-10-DP-1



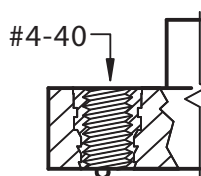
#### ECONOMY EYELET (P)

Example P/N: EMPSL-0156-10-DP-1K

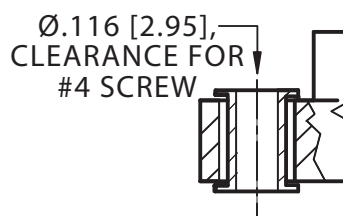
### MOUNTING STYLE



(STYLE 1)



(STYLE 2)



(STYLE 3)



(STYLE 4)



## PART NUMBER CODING

### PLATING - RoHS Compliant

All Platings are Lead Free and have .000050" Nickel Underplate

#### Contact Surface Termination

\*MPL = .000100" Overall Pure Tin, Matte

MP = .000010" Overall Gold

#### Platings that start with 'E' are for Economy Eyelet Only

\*EMPSL = .000010" Gold .000100" Pure Tin Matte

\*EMPL = .000100" Overall Pure Tin, Matte

EMP = .000010" Overall Gold

#### \* Requires 'K' Modification Code

Other Plating and thicknesses available upon request

### INSULATOR MATERIAL\*\*

0 = PBT

### CONTACT CENTERS

156 = .156" [3.96mm]

### NUMBER OF POSITIONS

Contacts Per Row (See Position Chart Below)

**MPL - 0 156 - 10 - D P - 1 K**

### PLATING MODIFICATION CODE\*\*

K = Required on Tin Plating Terminations

Omit for MP and EMP Plating (Overall Gold)

### MOUNTING STYLE (See Opposite Page)

1 = .125" Clearance Hole

2 = #4-40 Threaded Insert

3 = Floating Bobbin

4 = No Mounting

### TERMINATION TYPE (See Opposite Page)

P = Pierced Eyelet, .014" Thick

**MPL and MP Plating Only**

P = Economy Eyelet, .007" Thick

**Requires Part Number to start with 'E'**

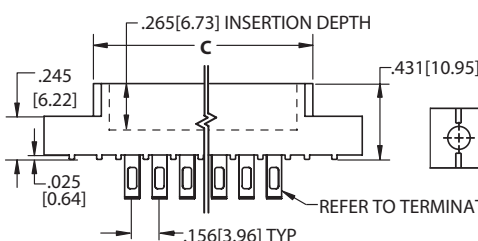
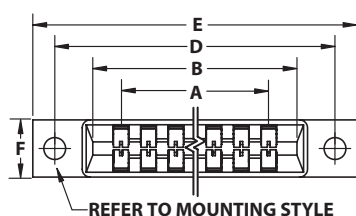
### READOUT

D = Dual

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



### CONTACT MARKINGS

(LETTERS G, I, O & Q NOT USED)

SIZE 02 THRU 25

1 2 3 ... 23 24 25

A B C ... AA BB CC

SIZE 28 & 44

1 2 3 ... 23 24 25

A B C ... A B C

SIZE 36 & 43

A B C ... A B C

1 2 3 ... 23 24 25



| POSITIONS/<br>CONTACTS | INCHES |        |        |              |       | [MILLIMETERS] |        |        |        |              |        |        |
|------------------------|--------|--------|--------|--------------|-------|---------------|--------|--------|--------|--------------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010       | E MAX | F±.005        | A±.020 | B±.020 | C±.038 | D±.025       | E MAX  | F±.013 |
| 02/04                  | 0.156  | 0.476  | 0.596  | 'N' MOUNTING |       |               | 3.96   | 12.09  | 15.14  | 'N' MOUNTING |        |        |
| 03/06                  | 0.312  | 0.632  | 0.752  | 'N' MOUNTING |       |               | 7.92   | 16.05  | 19.10  | 'N' MOUNTING |        |        |
| 06/12                  | 0.780  | 1.100  | 1.220  | 1.533        | 1.902 |               | 19.81  | 27.94  | 30.99  | 38.94        | 48.31  |        |
| 08/16                  | 1.092  | 1.412  | 1.532  | 1.845        | 2.214 |               | 27.74  | 35.86  | 38.91  | 46.86        | 56.24  |        |
| 10/20                  | 1.404  | 1.724  | 1.844  | 2.157        | 2.526 |               | 35.66  | 43.79  | 46.84  | 54.79        | 64.16  |        |
| 11/22                  | 1.560  | 1.880  | 2.000  | 2.313        | 2.682 | 0.325         | 39.62  | 47.75  | 50.80  | 58.75        | 68.12  | 8.26   |
| 12/24                  | 1.716  | 2.036  | 2.156  | 2.469        | 2.838 |               | 43.59  | 51.71  | 54.76  | 62.71        | 72.09  |        |
| 15/30                  | 2.184  | 2.504  | 2.624  | 2.937        | 3.306 |               | 55.47  | 63.60  | 66.65  | 74.60        | 83.97  |        |
| 18/36                  | 2.652  | 2.972  | 3.092  | 3.405        | 3.774 |               | 67.36  | 75.49  | 78.54  | 86.49        | 95.86  |        |
| 22/44                  | 3.276  | 3.596  | 3.716  | 4.029        | 4.398 |               | 83.21  | 91.34  | 94.39  | 102.34       | 111.71 |        |
| 24/48                  | 3.588  | 3.908  | 4.028  | 4.341        | 4.710 |               | 91.14  | 99.26  | 102.31 | 110.26       | 119.63 |        |
| 25/50                  | 3.744  | 4.064  | 4.184  | 4.497        | 4.866 |               | 95.10  | 103.23 | 106.27 | 114.22       | 123.60 |        |
| 28/56                  | 4.212  | 4.532  | 4.652  | 4.965        | 5.334 | 0.438         | 106.98 | 115.11 | 118.16 | 126.11       | 135.48 | 11.13  |
| 36/72                  | 5.460  | 5.780  | 5.900  | 6.213        | 6.582 |               | 138.68 | 146.81 | 149.86 | 157.81       | 167.18 |        |
| 43/86                  | 6.552  | 6.872  | 6.992  | 7.305        | 7.674 | 0.500         | 166.42 | 174.55 | 177.60 | 185.55       | 194.92 | 12.70  |
| 44/88                  | 6.708  | 7.028  | 7.148  | 7.461        | 7.830 |               | 170.38 | 178.51 | 181.56 | 189.51       | 198.88 |        |



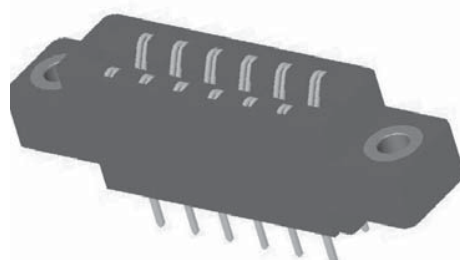
## Micro Plastics Edgards

MICROPLASTICS  
**SULLINS**

**.156" Contact Centers, .610" Insulator Height,  
Wire Wrap & Dip Solder**

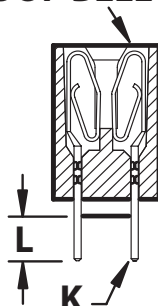
### SPECIFICATIONS

- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



### TERMINATION TYPE

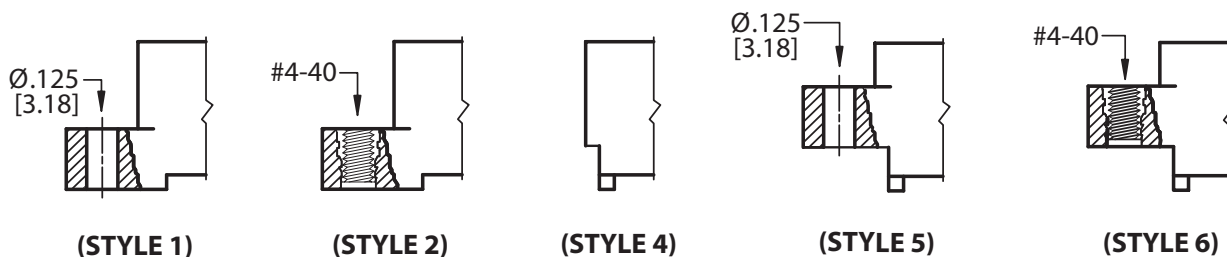
#### LOOP BELLOWS



#### LOOP BELLOWS

| TERMINATION CODE | MODIFICATION CODE | TYPE       | POST CROSS SECTION K | POST LENGTH L | FITS MIN. HOLE SIZE | EXAMPLE PART NUMBER              |
|------------------|-------------------|------------|----------------------|---------------|---------------------|----------------------------------|
| R                | H                 | Dip Solder | .026 [0.66] Round    | .190 [4.83]   | .030 [0.76]         | <b>MPSL-0156-10-DR-1HK</b>       |
| R                | H(.165)           | Dip Solder | .026 [0.66] Round    | .165 [4.19]   | .030 [0.76]         | <b>MPSL-0156-10-DR-1HK(.165)</b> |
| W                | H                 | Dip Solder | .025 [0.64] Square   | .190 [4.83]   | .040 [1.02]         | <b>MPSL-0156-10-DW-1HK</b>       |
| W                | OMIT              | Wire Wrap  | .025 [0.64] Square   | .560 [14.20]  | .040 [1.02]         | <b>MPSL-0156-10-DW-1K</b>        |

### MOUNTING STYLE





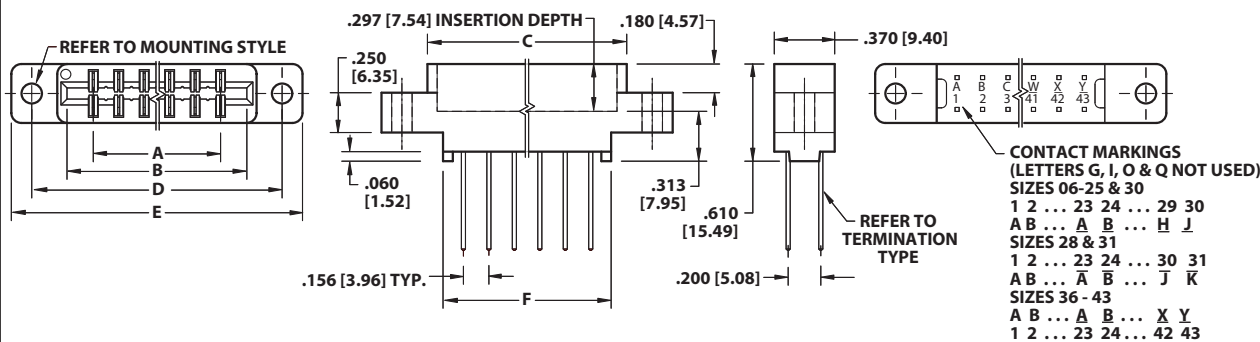
## PART NUMBER CODING

|                                                                                                                                                                                                                                                                         |                                        |                                                |                                                                           |                            |                                        |                                                                                                                 |                                                                                                                                                                                               |                                                                                                                                                                                                |                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------|---------------------------------------------------------------------------|----------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>PLATING - RoHS Compliant</b><br>All Platings are Lead Free and have .000050" Nickel Underplate<br><b>Contact Surface</b><br>*MPSL = .000010" Gold<br>*MPL = .000100" Overall Pure Tin, Matte<br>MP = .000010" Overall Gold<br><b>*Requires 'K' Modification Code</b> | <b>INSULATOR MATERIAL**</b><br>0 = PBT | <b>CONTACT CENTERS</b><br>156 = .156" [3.96mm] | <b>NUMBER OF POSITIONS</b><br>Contacts Per Row (See Position Chart Below) | <b>READOUT</b><br>D = Dual | <b>MPSL - 0 156 - 10 - D W - 1 H K</b> | <b>PLATING MODIFICATION CODE**</b><br>K = Required on MPSL or MPL Plating<br>Omit for MP Plating (Overall Gold) | <b>MODIFICATION CODE**</b><br>(See Opposite Page)<br>H = Dip Solder .190[4.83] Tail Length<br>(.026 Round or .025 Square)<br>H(.165) = Dip Solder .165[4.19] Tail Length<br>(.026 Round Only) | <b>MOUNTING STYLE</b> (See Opposite Page)<br>1 = .125" Clearance Hole<br>2 = #4-40 Threaded Insert<br>4 = No Mounting<br>5 = Raised, .125" Clearance Hole<br>6 = Raised, #4-40 Threaded Insert | <b>TERMINATION TYPE</b> (See Opposite Page)<br><b>LOOP BELLOWS</b><br>R = .026[.66mm] Round<br>W = .025[.64mm] Square |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------|---------------------------------------------------------------------------|----------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.015 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.38 |
| 06/12                  | 0.780  | 1.102  | 1.221  | 1.534  | 1.784  | 1.030  | 19.81         | 27.99  | 31.01  | 38.96  | 45.31  | 26.16  |
| 08/16                  | 1.092  | 1.414  | 1.533  | 1.846  | 2.096  | 1.342  | 27.74         | 35.92  | 38.94  | 46.89  | 53.24  | 34.09  |
| 10/20                  | 1.404  | 1.726  | 1.845  | 2.158  | 2.408  | 1.654  | 35.66         | 43.84  | 46.86  | 54.81  | 61.16  | 42.01  |
| 12/24                  | 1.716  | 2.038  | 2.157  | 2.470  | 2.720  | 1.966  | 43.59         | 51.77  | 54.79  | 62.74  | 69.09  | 49.94  |
| 15/30                  | 2.184  | 2.506  | 2.625  | 2.938  | 3.188  | 2.434  | 55.47         | 63.65  | 66.68  | 74.63  | 80.98  | 61.82  |
| 18/36                  | 2.652  | 2.974  | 3.093  | 3.406  | 3.656  | 2.902  | 67.36         | 75.54  | 78.56  | 86.51  | 92.86  | 73.71  |
| 20/40*                 | 2.964  | 3.286  | 3.405  | 3.718  | 3.968  | 3.214  | 75.29         | 83.46  | 86.49  | 94.44  | 100.79 | 81.64  |
| 22/44                  | 3.276  | 3.598  | 3.717  | 4.030  | 4.280  | 3.526  | 83.21         | 91.39  | 94.41  | 102.36 | 108.71 | 89.56  |
| 24/48                  | 3.588  | 3.910  | 4.029  | 4.342  | 4.592  | 3.838  | 91.14         | 99.31  | 102.34 | 110.29 | 116.64 | 97.49  |
| 25/50                  | 3.744  | 4.066  | 4.185  | 4.498  | 4.748  | 3.994  | 95.10         | 103.28 | 106.30 | 114.25 | 120.60 | 101.45 |
| 28/56                  | 4.212  | 4.534  | 4.653  | 4.966  | 5.216  | 4.462  | 106.98        | 115.16 | 118.19 | 126.14 | 132.49 | 113.33 |
| 30/60                  | 4.524  | 4.846  | 4.965  | 5.278  | 5.528  | 4.774  | 114.91        | 123.09 | 126.11 | 134.06 | 140.41 | 121.26 |
| 31/62                  | 4.680  | 5.002  | 5.121  | 5.434  | 5.684  | 4.930  | 118.87        | 127.05 | 130.07 | 138.02 | 144.37 | 125.22 |
| 36/72                  | 5.460  | 5.782  | 5.901  | 6.214  | 6.464  | 5.710  | 138.68        | 146.86 | 149.89 | 157.84 | 164.19 | 145.03 |
| 40/80                  | 6.084  | 6.406  | 6.525  | 6.838  | 7.088  | 6.334  | 154.53        | 162.71 | 165.74 | 173.69 | 180.04 | 160.88 |
| 43/86                  | 6.552  | 6.874  | 6.993  | 7.306  | 7.556  | 6.802  | 166.42        | 174.60 | 177.62 | 185.57 | 191.92 | 172.77 |

\* Consult Factory for availability.



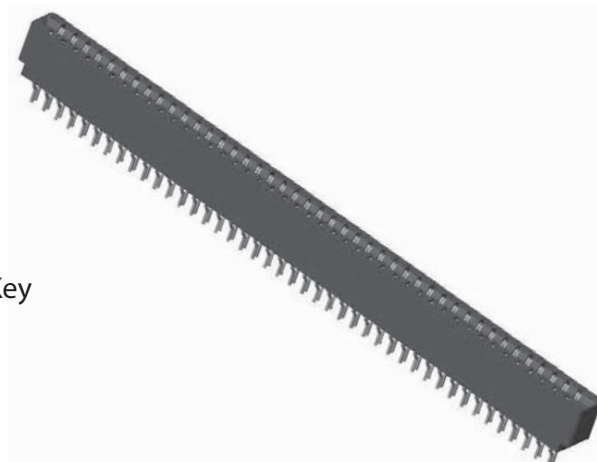
## Micro Plastics Edgecards

MICROPLASTICS  
**SULLINS**

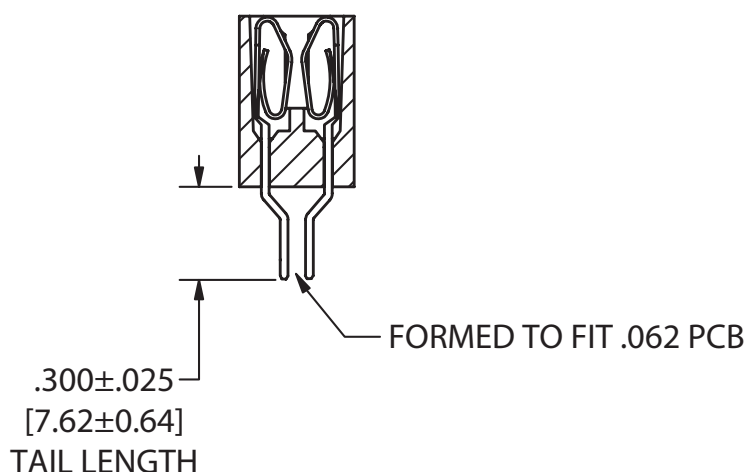
**.156" Contact Centers, .550" Insulator Height,  
.025" Square Card Extender**

### SPECIFICATIONS

- Accommodates  $.062" \pm .008"$  [ $1.57 \pm 0.20$ ] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory

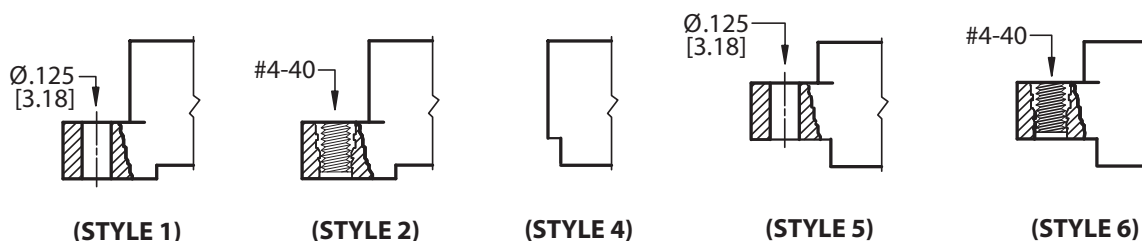


### TERMINATION TYPE



**Example P/N: MPPSL-0156-10-DWE-4KTT**

### MOUNTING STYLE





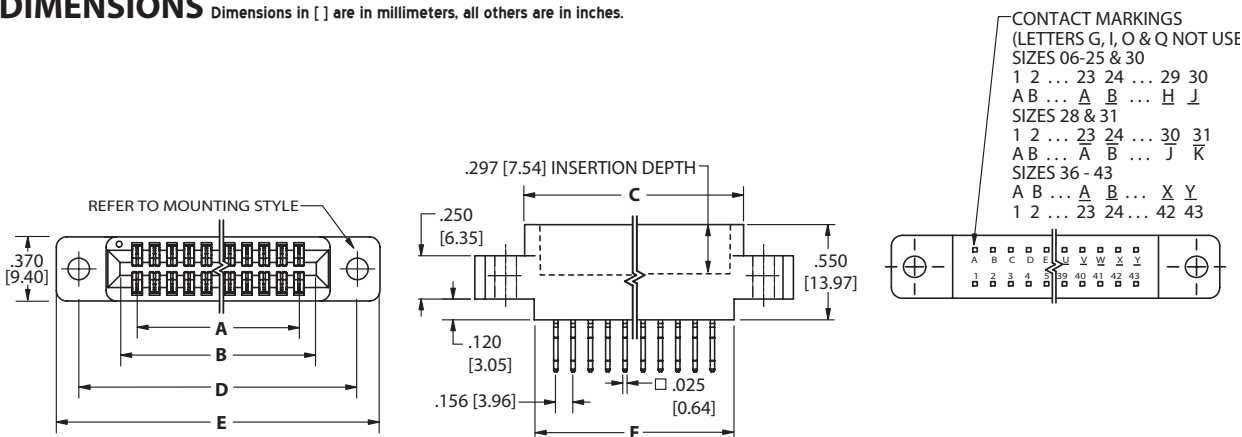
## PART NUMBER CODING

|                                                                                                                                                                                                                                                                         |                                         |                                                |                                                                           |                                                 |                                                                                                                 |                                                                                                                                                                                                |                                                                   |                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------|
| <b>PLATING - RoHS Compliant</b><br>All Platings are Lead Free and have .000050" Nickel Underplate<br><b>Contact Surface</b><br>*MPSL = .000010" Gold<br>*MPL = .000100" Overall Pure Tin, Matte<br>MP = .000010" Overall Gold<br><b>*Requires 'K' Modification Code</b> | <b>INSULATOR MATERIAL **</b><br>0 = PBT | <b>CONTACT CENTERS</b><br>156 = .156" [3.96mm] | <b>NUMBER OF POSITIONS</b><br>Contacts Per Row (See Position Chart Below) | <b>MODIFICATION CODE**</b><br>TT = No Standoffs | <b>PLATING MODIFICATION CODE**</b><br>K = Required on MPSL or MPL Plating<br>Omit for MP Plating (Overall Gold) | <b>MOUNTING STYLE</b> (See Opposite Page)<br>1 = .125" Clearance Hole<br>2 = #4-40 Threaded Insert<br>4 = No Mounting<br>5 = Raised, .125" Clearance Hole<br>6 = Raised, #4-40 Threaded Insert | <b>TERMINATION TYPE</b> (See Opposite Page)<br>WE = Card Extender | <b>READOUT</b><br>D = Dual |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------|

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.015 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.38 |
| 06/12                  | 0.780  | 1.102  | 1.221  | 1.534  | 1.784  | 1.030  | 19.81         | 27.99  | 31.01  | 38.96  | 45.31  | 26.16  |
| 08/16                  | 1.092  | 1.414  | 1.533  | 1.846  | 2.096  | 1.342  | 27.74         | 35.92  | 38.94  | 46.89  | 53.24  | 34.09  |
| 10/20                  | 1.404  | 1.726  | 1.845  | 2.158  | 2.408  | 1.654  | 35.66         | 43.84  | 46.86  | 54.81  | 61.16  | 42.01  |
| 12/24                  | 1.716  | 2.038  | 2.157  | 2.470  | 2.720  | 1.966  | 43.59         | 51.77  | 54.79  | 62.74  | 69.09  | 49.94  |
| 15/30                  | 2.184  | 2.506  | 2.625  | 2.938  | 3.188  | 2.434  | 55.47         | 63.65  | 66.68  | 74.63  | 80.98  | 61.82  |
| 18/36                  | 2.652  | 2.974  | 3.093  | 3.406  | 3.656  | 2.902  | 67.36         | 75.54  | 78.56  | 86.51  | 92.86  | 73.71  |
| 20/40*                 | 2.964  | 3.286  | 3.405  | 3.718  | 3.968  | 3.214  | 75.29         | 83.46  | 86.49  | 94.44  | 100.79 | 81.64  |
| 22/44                  | 3.276  | 3.598  | 3.717  | 4.030  | 4.280  | 3.526  | 83.21         | 91.39  | 94.41  | 102.36 | 108.71 | 89.56  |
| 24/48                  | 3.588  | 3.910  | 4.029  | 4.342  | 4.592  | 3.838  | 91.14         | 99.31  | 102.34 | 110.29 | 116.64 | 97.49  |
| 25/50                  | 3.744  | 4.066  | 4.185  | 4.498  | 4.748  | 3.994  | 95.10         | 103.28 | 106.30 | 114.25 | 120.60 | 101.45 |
| 28/56                  | 4.212  | 4.534  | 4.653  | 4.966  | 5.216  | 4.462  | 106.98        | 115.16 | 118.19 | 126.14 | 132.49 | 113.33 |
| 30/60                  | 4.524  | 4.846  | 4.965  | 5.278  | 5.528  | 4.774  | 114.91        | 123.09 | 126.11 | 134.06 | 140.41 | 121.26 |
| 31/62                  | 4.680  | 5.002  | 5.121  | 5.434  | 5.684  | 4.930  | 118.87        | 127.05 | 130.07 | 138.02 | 144.37 | 125.22 |
| 36/72                  | 5.460  | 5.782  | 5.901  | 6.214  | 6.464  | 5.710  | 138.68        | 146.86 | 149.89 | 157.84 | 164.19 | 145.03 |
| 40/80                  | 6.084  | 6.406  | 6.525  | 6.838  | 7.088  | 6.334  | 154.53        | 162.71 | 165.74 | 173.69 | 180.04 | 160.88 |
| 43/86                  | 6.552  | 6.874  | 6.993  | 7.306  | 7.556  | 6.802  | 166.42        | 174.60 | 177.62 | 185.57 | 191.92 | 172.77 |

\* Consult Factory for availability.



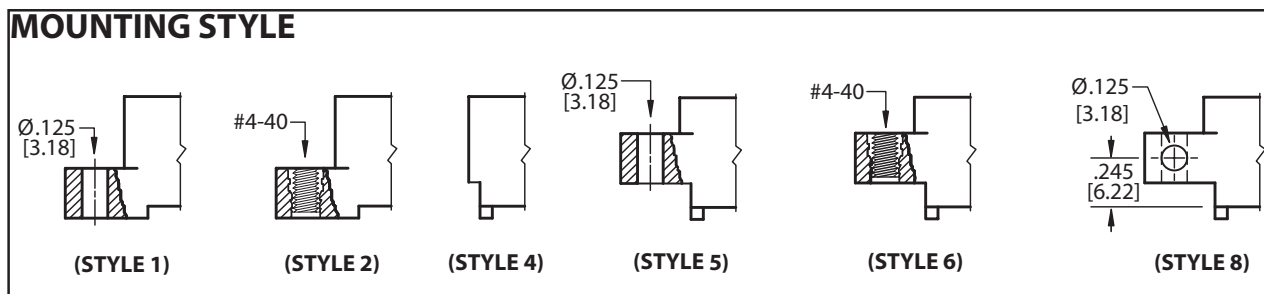
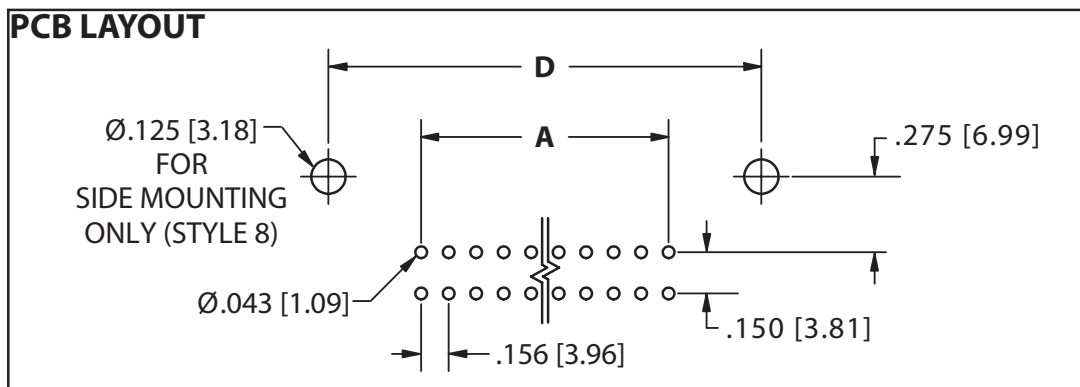
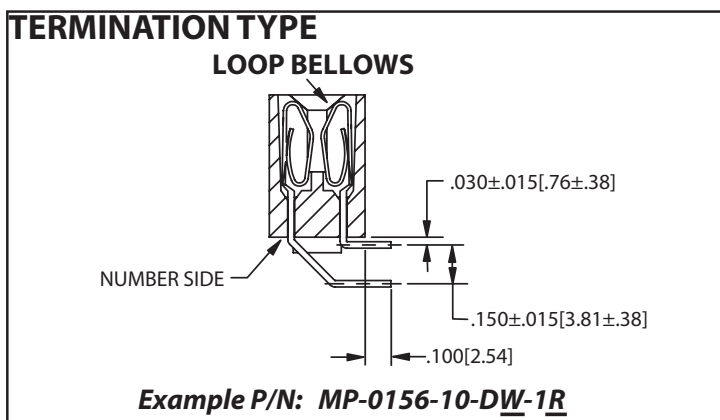
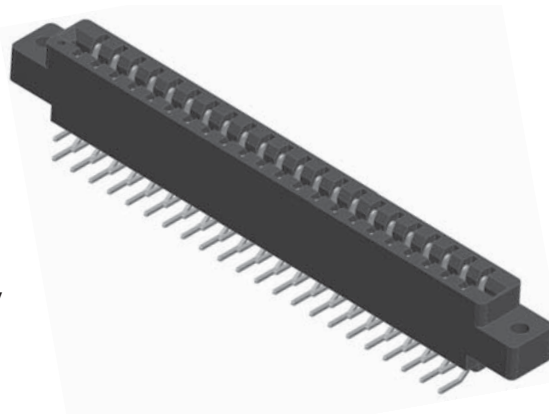
## Micro Plastics Edgards

MICROPLASTICS  
**SULLINS**

**.156" Contact Centers, .610" Insulator Height,  
Right Angle**

### SPECIFICATIONS

- Accommodates .062" ± .008" [1.57 ± 0.20] PC Board
- Insulator Material available in PBT, PPS or PA9T
- 3 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory





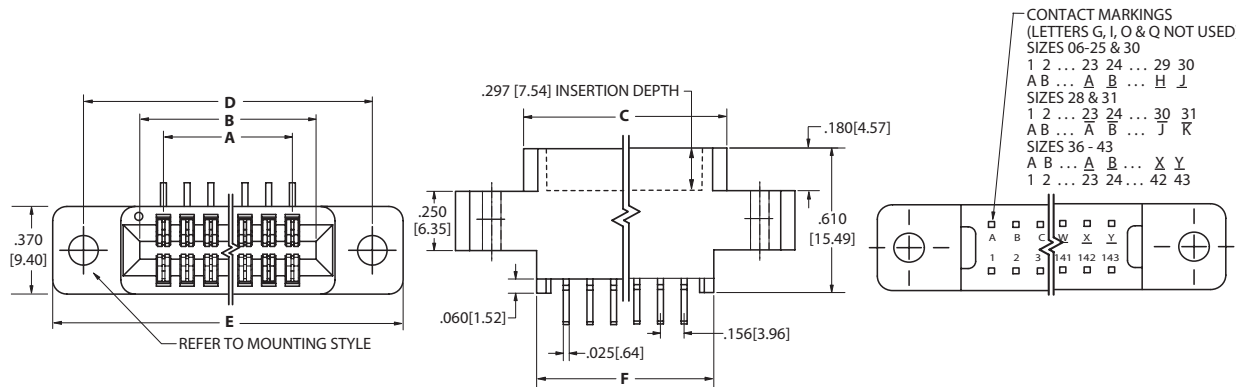
## PART NUMBER CODING

|                                                                                                                          |                                        |                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PLATING - RoHS Compliant</b><br>All Platings are Lead Free and have .000050" Nickel Underplate                        | <b>MPSL - 0 156 - 10 - D W - 1 K R</b> | <b>MODIFICATION CODE**</b><br>R = Right Angle                                                                                                                                                                                                     |
| <b>Contact Surface</b><br>*MPSL = .000010" Gold<br>*MPL = .000100" Overall Pure Tin, Matte<br>MP = .000010" Overall Gold |                                        | <b>PLATING MODIFICATION CODE**</b><br>K = Required on MPSP or MPL Plating<br>Omit for MP Plating (Overall Gold)                                                                                                                                   |
| <b>Termination</b><br>*Requires 'K' Modification Code                                                                    |                                        |                                                                                                                                                                                                                                                   |
| <b>INSULATOR MATERIAL**</b><br>0 = PBT                                                                                   |                                        | <b>MOUNTING STYLE</b> (See Opposite Page)<br>1 = .125" Clearance Hole<br>2 = #4-40 Threaded Insert<br>4 = No Mounting<br>5 = Raised, .125" Clearance Hole<br>6 = Raised, #4-40 Threaded Insert<br>8 = Raised, Side Mounting, .125" Clearance Hole |
| <b>CONTACT CENTERS</b><br>156 = .156" [3.96mm]                                                                           |                                        | <b>TERMINATION TYPE</b><br><b>LOOP BELLOWS</b><br>W = .025 [.64] Square                                                                                                                                                                           |
| <b>NUMBER OF POSITIONS</b><br>Contacts Per Row (See Position Chart Below)                                                |                                        |                                                                                                                                                                                                                                                   |
| <b>READOUT</b><br>D = Dual                                                                                               |                                        |                                                                                                                                                                                                                                                   |

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.015 | A±.020        | B±.020 | C±.038 | D±.025 | E±.051 | F±.038 |
| 06/12                  | 0.780  | 1.102  | 1.221  | 1.534  | 1.784  | 1.030  | 19.81         | 27.99  | 31.01  | 38.96  | 45.31  | 26.16  |
| 08/16                  | 1.092  | 1.414  | 1.533  | 1.846  | 2.096  | 1.342  | 27.74         | 35.92  | 38.94  | 46.89  | 53.24  | 34.09  |
| 10/20                  | 1.404  | 1.726  | 1.845  | 2.158  | 2.408  | 1.654  | 35.66         | 43.84  | 46.86  | 54.81  | 61.16  | 42.01  |
| 12/24                  | 1.716  | 2.038  | 2.157  | 2.470  | 2.720  | 1.966  | 43.59         | 51.77  | 54.79  | 62.74  | 69.09  | 49.94  |
| 15/30                  | 2.184  | 2.506  | 2.625  | 2.938  | 3.188  | 2.434  | 55.47         | 63.65  | 66.68  | 74.63  | 80.98  | 61.82  |
| 18/36                  | 2.652  | 2.974  | 3.093  | 3.406  | 3.656  | 2.902  | 67.36         | 75.54  | 78.56  | 86.51  | 92.86  | 73.71  |
| 20/40*                 | 2.964  | 3.286  | 3.405  | 3.718  | 3.968  | 3.214  | 75.29         | 83.46  | 86.49  | 94.44  | 100.79 | 81.64  |
| 22/44                  | 3.276  | 3.598  | 3.717  | 4.030  | 4.280  | 3.526  | 83.21         | 91.39  | 94.41  | 102.36 | 108.71 | 89.56  |
| 24/48                  | 3.588  | 3.910  | 4.029  | 4.342  | 4.592  | 3.838  | 91.14         | 99.31  | 102.34 | 110.29 | 116.64 | 97.49  |
| 25/50                  | 3.744  | 4.066  | 4.185  | 4.498  | 4.748  | 3.994  | 95.10         | 103.28 | 106.30 | 114.25 | 120.60 | 101.45 |
| 28/56                  | 4.212  | 4.534  | 4.653  | 4.966  | 5.216  | 4.462  | 106.98        | 115.16 | 118.19 | 126.14 | 132.49 | 113.33 |
| 30/60                  | 4.524  | 4.846  | 4.965  | 5.278  | 5.528  | 4.774  | 114.91        | 123.09 | 126.11 | 134.06 | 140.41 | 121.26 |
| 31/62                  | 4.680  | 5.002  | 5.121  | 5.434  | 5.684  | 4.930  | 118.87        | 127.05 | 130.07 | 138.02 | 144.37 | 125.22 |
| 36/72                  | 5.460  | 5.782  | 5.901  | 6.214  | 6.464  | 5.710  | 138.68        | 146.86 | 149.89 | 157.84 | 164.19 | 145.03 |
| 40/80                  | 6.084  | 6.406  | 6.525  | 6.838  | 7.088  | 6.334  | 154.53        | 162.71 | 165.74 | 173.69 | 180.04 | 160.88 |
| 43/86                  | 6.552  | 6.874  | 6.993  | 7.306  | 7.556  | 6.802  | 166.42        | 174.60 | 177.62 | 185.57 | 191.92 | 172.77 |

\* Consult Factory for availability.



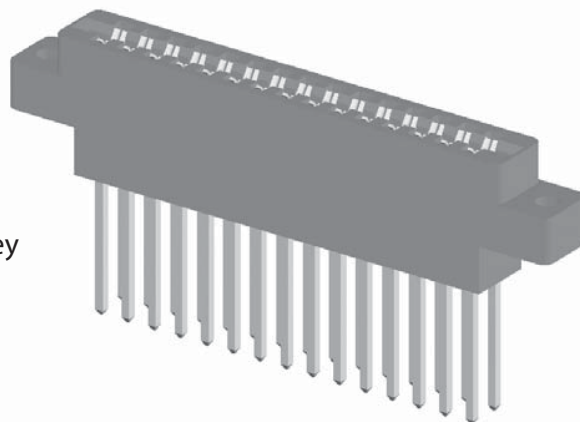
## Micro Plastics Edgards

MICROPLASTICS  
**SULLINS**

**.156" Contact Centers, .720" Insulator Height,  
.045" Square Wire Wrap**

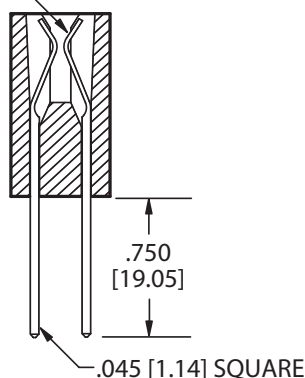
### SPECIFICATIONS

- Accommodates  $.062" \pm .008"$  [ $1.57 \pm 0.20$ ] PC Board
- Insulator Material available in PBT
- 5 Amp Current Rating per contact
- Insulator / Contact Specifications and Part Number Coding See Page 82-83
- P/N 04-0004-000 for In Between Contact Position Key See Page 126 (Sold Separately)
- Molded-in Key Available - Consult Factory



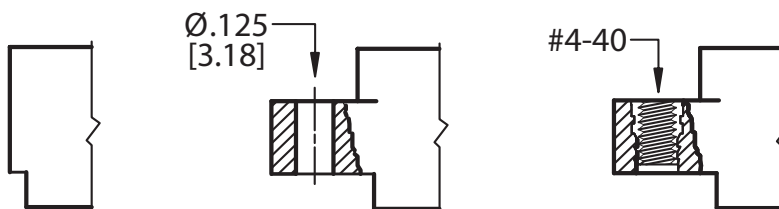
### TERMINATION TYPE

#### CANTILEVER CONTACT



**Example P/N: MP~~SL~~-0156-10-DFS-1K**

### MOUNTING STYLE



**(STYLE 4)**

**(STYLE 5)**

**(STYLE 6)**



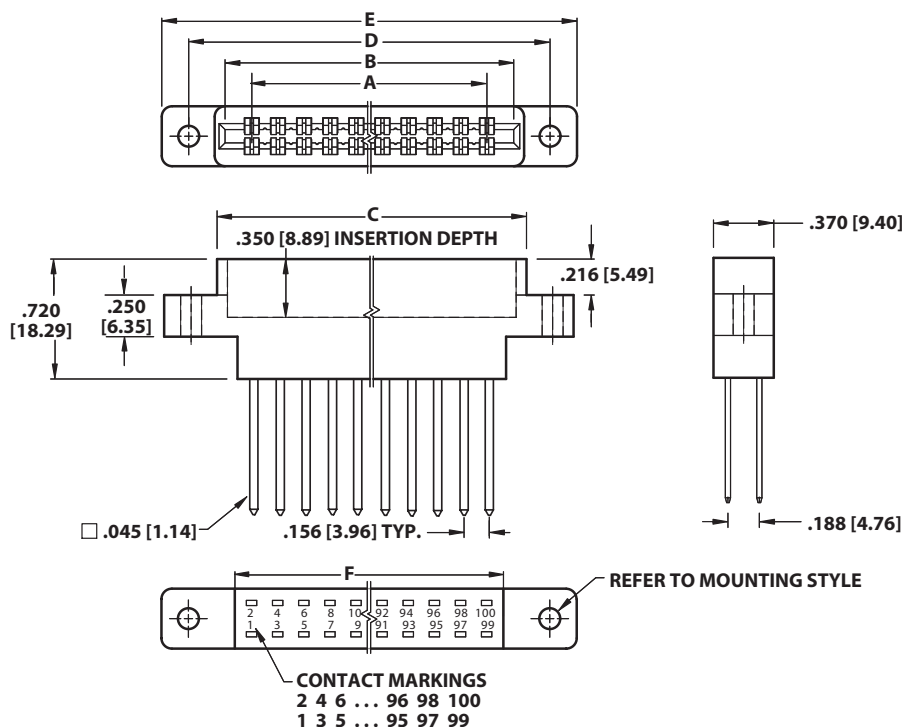
## PART NUMBER CODING

|                                                                                                                          |                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>PLATING - RoHS Compliant</b><br>All Platings are Lead Free and have .000050" Nickel Underplate                        | <b>MODIFICATION CODE**</b>                                                                                                            |
| <b>CONTACT SURFACE</b><br>*MPSL = .000010" Gold<br>*MPL = .000100" Overall Pure Tin, Matte<br>MP = .000010" Overall Gold | <b>PLATING MODIFICATION CODE**</b><br>K = Required on MPSL or MPL Plating<br>Omit for MP Plating (Overall Gold)                       |
| <b>TERMINATION</b><br>*Requires 'K' Modification Code                                                                    | <b>MOUNTING STYLE</b> (See Opposite Page)<br>4 = No Mounting<br>5 = Raised, .125" Clearance Hole<br>6 = Raised, #4-40 Threaded Insert |
| <b>INSULATOR MATERIAL**</b><br>0 = PBT                                                                                   | <b>TERMINATION TYPE</b> (See Opposite Page)<br>FS = .045 Square Contacts                                                              |
| <b>CONTACT CENTERS</b><br>156 = .156" [3.96mm]                                                                           | <b>READOUT</b><br>D = Dual                                                                                                            |
| <b>NUMBER OF POSITIONS</b><br>Contacts Per Row (See Position Chart Below)                                                |                                                                                                                                       |

**\*\* SEE PAGES 82-83 FOR SPECIFICATIONS AND OTHER VARIATIONS**

## DIMENSIONS

Dimensions in [ ] are in millimeters, all others are in inches.



| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | [MILLIMETERS] |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.015 | A±0.20        | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.38 |
| 10/20                  | 1.404  | 1.724  | 1.848  | 2.158  | 2.408  | 1.604  | 35.66         | 43.79  | 46.94  | 54.81  | 61.16  | 40.74  |
| 12/24                  | 1.716  | 2.036  | 2.160  | 2.470  | 2.720  | 1.916  | 43.59         | 51.71  | 54.86  | 62.74  | 69.09  | 48.67  |
| 15/30                  | 2.184  | 2.504  | 2.628  | 2.938  | 3.188  | 2.384  | 55.47         | 63.60  | 66.75  | 74.63  | 80.98  | 60.55  |
| 18/36                  | 2.652  | 2.972  | 3.096  | 3.406  | 3.656  | 2.852  | 67.36         | 75.49  | 78.64  | 86.51  | 92.86  | 72.44  |
| 22/44                  | 3.276  | 3.596  | 3.720  | 4.030  | 4.280  | 3.476  | 83.21         | 91.34  | 94.49  | 102.36 | 108.71 | 88.29  |
| 25/50                  | 3.744  | 4.064  | 4.188  | 4.498  | 4.748  | 3.944  | 95.10         | 103.23 | 106.38 | 114.25 | 120.60 | 100.18 |
| 28/56                  | 4.212  | 4.532  | 4.656  | 4.966  | 5.216  | 4.412  | 106.98        | 115.11 | 118.26 | 126.14 | 132.49 | 112.06 |
| 30/60                  | 4.524  | 4.844  | 4.968  | 5.278  | 5.528  | 4.724  | 114.91        | 123.04 | 126.19 | 134.06 | 140.41 | 119.99 |
| 36/72                  | 5.460  | 5.780  | 5.904  | 6.214  | 6.464  | 5.660  | 138.68        | 146.81 | 149.96 | 157.84 | 164.19 | 143.76 |
| 43/86                  | 6.552  | 6.872  | 6.996  | 7.306  | 7.556  | 6.752  | 166.42        | 174.55 | 177.70 | 185.57 | 191.92 | 171.50 |



## Micro Plastics Edgards

MICROPLASTICS  
**SULLINS**

### Polarizing Keys

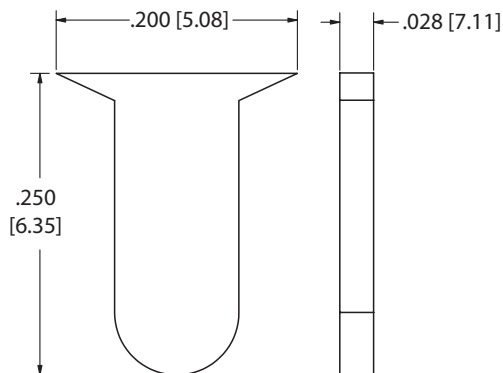
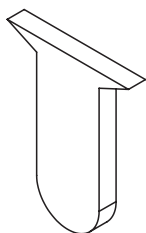
#### In Between Contact & In Contact

**ALL KEYS ORDERED SEPARATELY**

#### IN BETWEEN CONTACT KEY

**P/N: 04-0001-000**

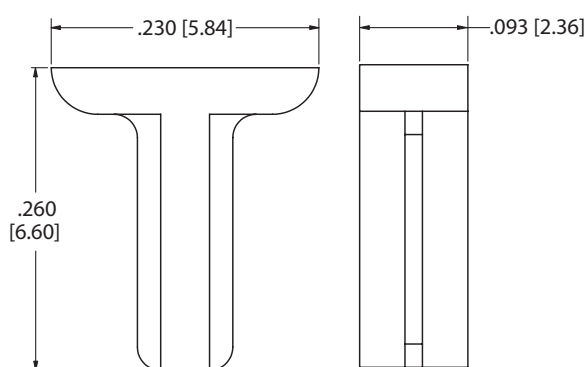
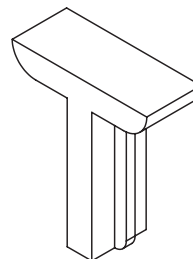
**SULLINS PART: PLM-K1**



#### IN CONTACT KEY

**P/N: 04-0002-000**

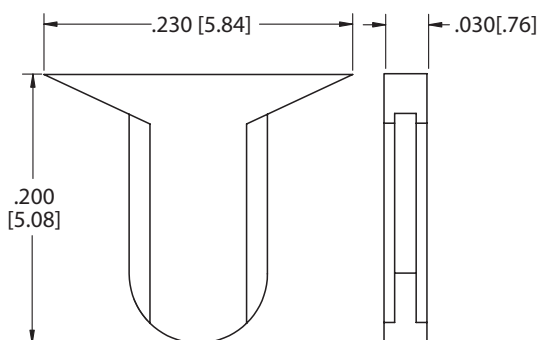
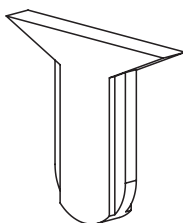
**SULLINS PART: PLM-K2**



#### IN BETWEEN CONTACT KEY

**P/N: 04-0003-000**

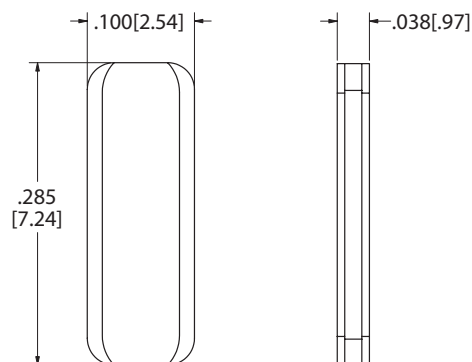
**SULLINS PART: PLA-K1**



#### IN BETWEEN CONTACT KEY

**P/N: 04-0004-000**

**SULLINS PART: PLC-K1**





Now it is faster and easier to identify connectors when you only have a part number. Simply use your part number to find the pages containing more information about your connector in this catalog and then contact us to place an order.

The underscore sign represents design variations in the part number coding. For example: if your part number is **EBA10DCAS**, you would look for **\_\_ A \_\_ DCA \_**, which is on pages 50-51.

## SULLINS EDGE CARDS AND HEADERS

| Sullins Part Number | Page  | Sullins Part Number | Page  | Sullins Part Number | Page  |
|---------------------|-------|---------------------|-------|---------------------|-------|
| __ A __ DCA _       | 50-51 | __ A __ DTK -S288   | 50-51 | __ B66DHF -S578     | 18-19 |
| __ A __ DCB _       | 50-51 | __ A __ DTM _       | 50-51 | __ B66DHF -S621     | 18-19 |
| __ A __ DCC _       | 50-51 | __ A __ DTM -S273   | 52-53 | __ B66DHH -S578     | 18-19 |
| __ A __ DCK _       | 50-51 | __ A __ DTM -S664   | 52-53 | __ B66DHH -S621     | 18-19 |
| __ A __ DCK -S288   | 50-51 | __ B __ DHA _       | 16-17 | __ B66DHL -S578     | 18-19 |
| __ A __ DCM _       | 50-51 | __ B __ DHB _       | 16-17 | __ B66DHL -S621     | 18-19 |
| __ A __ DCM -S288   | 50-51 | __ B __ DHF _       | 14-15 | __ B66DHN -S578     | 18-19 |
| __ A __ DCS _       | 50-51 | __ B __ DHH _       | 14-15 | __ B66DHN -S621     | 18-19 |
| __ A __ DCS -S288   | 50-51 | __ B __ DHL _       | 14-15 | __ B66DHR -S578     | 18-19 |
| __ A __ DCT _       | 50-51 | __ B __ DHN _       | 14-15 | __ B66DHR -S621     | 18-19 |
| __ A __ DCT -S288   | 50-51 | __ B __ DHR _       | 14-15 | __ B91DHA -S621     | 20-21 |
| __ A __ DCW _       | 50-51 | __ B __ DKB _       | 28-29 | __ B91DHB -S621     | 20-21 |
| __ A __ DCW -S288   | 50-51 | __ B __ DKB -S1075  | 28-29 | __ B91DHF -S578     | 18-19 |
| __ A __ DRA _       | 48-49 | __ B __ DKB -S1076  | 28-29 | __ B91DHF -S621     | 18-19 |
| __ A __ DRA -S734   | 48-49 | __ B __ DLR _       | 26-27 | __ B91DHH -S578     | 18-19 |
| __ A __ DRE _       | 48-49 | __ B __ DLT _       | 26-27 | __ B91DHH -S621     | 18-19 |
| __ A __ DRE -S13    | 48-49 | __ B56DHA -S621     | 20-21 | __ B91DHL -S578     | 18-19 |
| __ A __ DRE -S734   | 48-49 | __ B56DHB -S621     | 20-21 | __ B91DHL -S621     | 18-19 |
| __ A __ DRJ _       | 48-49 | __ B56DHF -S578     | 18-19 | __ B91DHN -S578     | 18-19 |
| __ A __ DRJ -S734   | 48-49 | __ B56DHF -S621     | 18-19 | __ B91DHN -S621     | 18-19 |
| __ A __ DRM _       | 50-51 | __ B56DHH -S578     | 18-19 | __ B91DHR -S578     | 18-19 |
| __ A __ DRM -S273   | 52-53 | __ B56DHH -S621     | 18-19 | __ B91DHR -S621     | 18-19 |
| __ A __ DRM -S288   | 50-51 | __ B56DHL -S578     | 18-19 | __ B92DHA -S250     | 24-25 |
| __ A __ DRM -S664   | 52-53 | __ B56DHL -S621     | 18-19 | __ B92DHA -S329     | 24-25 |
| __ A __ DRS _       | 50-51 | __ B56DHN -S578     | 18-19 | __ B92DHB -S250     | 24-25 |
| __ A __ DRS -S273   | 52-53 | __ B56DHN -S621     | 18-19 | __ B92DHB -S329     | 24-25 |
| __ A __ DRS -S288   | 50-51 | __ B56DHR -S578     | 18-19 | __ B92DHF -S250     | 22-23 |
| __ A __ DRS -S664   | 52-53 | __ B56DHR -S621     | 18-19 | __ B92DHF -S329     | 22-23 |
| __ A __ DRT _       | 48-49 | __ B60DHA -S621     | 24-25 | __ B92DHF -S330     | 22-23 |
| __ A __ DRT -S13    | 48-49 | __ B60DHA -S793     | 24-25 | __ B92DHF -S378     | 22-23 |
| __ A __ DRT -S734   | 48-49 | __ B60DHB -S621     | 24-25 | __ B92DHH -S250     | 22-23 |
| __ A __ DRX _       | 48-49 | __ B60DHB -S793     | 24-25 | __ B92DHH -S329     | 22-23 |
| __ A __ DRX -S734   | 48-49 | __ B60DHF -S578     | 22-23 | __ B92DHH -S330     | 22-23 |
| __ A __ DRY _       | 48-49 | __ B60DHF -S621     | 22-23 | __ B92DHL -S250     | 22-23 |
| __ A __ DRY -S13    | 48-49 | __ B60DHH -S578     | 22-23 | __ B92DHL -S329     | 22-23 |
| __ A __ DRY -S734   | 48-49 | __ B60DHH -S621     | 22-23 | __ B92DHL -S330     | 22-23 |
| __ A __ DTA _       | 50-51 | __ B60DHL -S578     | 22-23 | __ B92DHL -S378     | 22-23 |
| __ A __ DTA -S273   | 52-53 | __ B60DHL -S621     | 22-23 | __ B92DHN -S250     | 22-23 |
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**SULLINS**

### A BRAND NEW SULLINS

2008 is an exciting year for Sullins as we strive to become a more customer-driven and competitive company offering a wider spectrum of products and services than ever before. To achieve this goal, we are rebranding our company from the inside out. In the coming months, you'll be experiencing some new and revitalized results of our rebranding efforts in your interactions with Sullins. Below are just a few highlights we'd like to share with you:

#### **New Logo**

Sullins' fresh new logo symbolizes our transformation into a more modern and streamlined company in order to serve customers like you more effectively. Our new tagline, "Connector Solutions" brings more focus and clarity in communicating our business to all audiences.

#### **New Catalog**

Our 2008 catalog is the largest ever, combining products from Sullins and Micro Plastics into one convenient reference. We hope our newly designed, comprehensive catalog is easy to use and provides all the information you need for your connector solutions.

#### **New Web Site — Coming Summer 2008**

Sullins is developing a brand new Web site to communicate and conduct business more effectively with online customers. The new, invigorated design will help online customers navigate the site easily, learn about new products better, find products quickly, understand our connector design process more thoroughly, purchase standard connectors from our online store, and much, much more!

### GO THE DISTANCE

At Sullins, we go the distance to meet our customers' needs. But don't take our word for it. Here are what some customers have to say about our products and services.

*"You are awesome. I can always count on you to have the quotes in an hour or two.  
 You are timely and efficient, a pleasure to do business with."*  
 -Jackie Feight, Heilind Electronics

*"Sullins' response turnaround, accuracy and attention to detail is beyond impressive.  
 Simply amazing!"*  
 -Paul Alexandrescu, Product Cost Engineering

*"Man that was fast! Like how you work, girl. THANKS!!!!!!"*  
 -Johnny Q. Guerrero, Ital Electronics

*"You're the best."*  
 -Erik Wisesa, Bisco Industries

### WE VALUE YOUR FEEDBACK

Your input is important to us as we continue to grow and become a better company. Please feel free to share any notable feedback or suggestions with us by e-mailing [feedback@sullinscorp.com](mailto:feedback@sullinscorp.com).