

## Excellent Integrated System Limited

Stocking Distributor

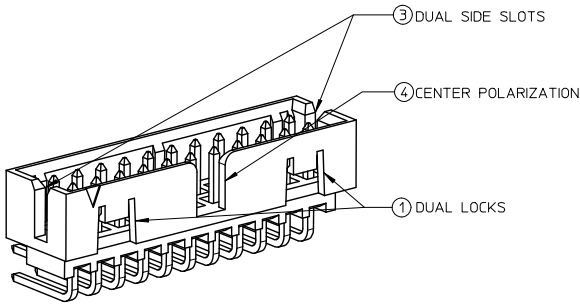
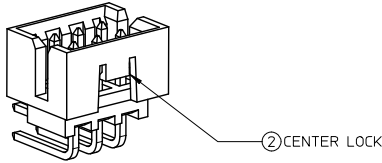
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Molex Connector Corporation](#)  
[0878333020](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

FEATURES SELECTION GUIDE



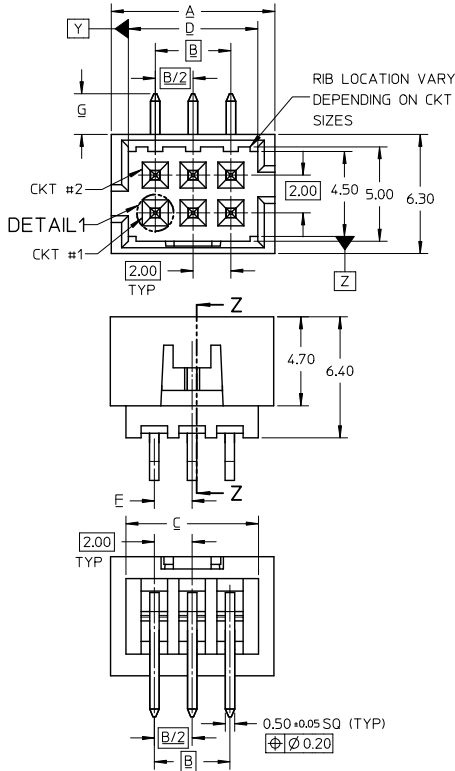
| CIRCUIT SIZE | FEATURES       |          |                   |                       |          |
|--------------|----------------|----------|-------------------|-----------------------|----------|
|              | FRICTION LOCKS |          | 3 DUAL SIDE SLOTS | 4 CENTER POLARIZATION | SHEET NO |
|              | 1 DUAL         | 2 CENTER |                   |                       |          |
| 4 - 6        | N.A            | N.A      | YES               | N.A                   | 2 - 3    |
|              | N.A            | YES      | YES               | N.A                   |          |
| 8 TO 12      | N.A            | N.A      | YES               | YES                   | 4 - 5    |
|              | N.A            | YES      | YES               | N.A                   |          |
| 14 TO 50     | YES            | N.A      | YES               | YES                   | 6 - 9    |
|              | N.A            | N.A      | YES               | YES                   |          |

PACKAGING SPECIFICATION TABLE

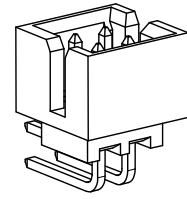
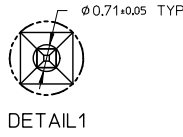
|                                                              |              |
|--------------------------------------------------------------|--------------|
| TAPE AND REEL PACKAGING                                      | PK-87831-300 |
| TUBE STANDARD PACKAGING                                      | PK-87831-001 |
| TUBE NON-STANDARD PACKAGING FOR:<br>87833-0861<br>87833-1420 | PK-87831-002 |

| <b>ADD PK TABLE</b><br>EC NO: S2017-0022<br>DRAWN BY: GEMENARLY 2016/07/27<br>CHECKED BY: SCHEONG 2016/07/27<br>APPR: KHLIM 2016/07/28<br>REV: A2 | QUALITY SYMBOLS<br>∇=0<br>∇=0<br>∇=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br><table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>3 PLACES</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>2 PLACES</td> <td>±0.20</td> <td>±---</td> </tr> <tr> <td>1 PLACE</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>0 PLACE</td> <td>±---</td> <td>±---</td> </tr> </tbody> </table> ANGULAR ± 3°<br>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |      | mm | INCH | 4 PLACES | ±--- | ±--- | 3 PLACES | ±--- | ±--- | 2 PLACES | ±0.20 | ±--- | 1 PLACE | ±--- | ±--- | 0 PLACE | ±--- | ±--- | DIMENSION STYLE<br>MM ONLY<br>DRAWN BY: GEMENARLY 2015/09/29<br>CHECKED BY: CGOH 2015/10/30<br>APPROVED BY: KHLIM 2015/11/03 | SCALE: NTS<br>DESIGN UNITS: METRIC<br>THIRD ANGLE PROJECTION | TITLE:<br>MILLIGRID<br>2MM PITCH, SMT<br>R/A SHROUDED HEADER<br><b>molex</b> | MATERIAL NO.<br>SEE TABLE | DOCUMENT NO.<br>SD-87833-0001 | SHEET NO.<br>1 OF 9 |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|------|----------|------|------|----------|------|------|----------|-------|------|---------|------|------|---------|------|------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------|-------------------------------|---------------------|
|                                                                                                                                                   |                                      | mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | INCH |    |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                              |                                                              |                                                                              |                           |                               |                     |
|                                                                                                                                                   | 4 PLACES                             | ±---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ±--- |    |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                              |                                                              |                                                                              |                           |                               |                     |
|                                                                                                                                                   | 3 PLACES                             | ±---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ±--- |    |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                              |                                                              |                                                                              |                           |                               |                     |
| 2 PLACES                                                                                                                                          | ±0.20                                | ±---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |    |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                              |                                                              |                                                                              |                           |                               |                     |
| 1 PLACE                                                                                                                                           | ±---                                 | ±---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |    |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                              |                                                              |                                                                              |                           |                               |                     |
| 0 PLACE                                                                                                                                           | ±---                                 | ±---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |    |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                              |                                                              |                                                                              |                           |                               |                     |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION                     |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |    |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                              |                                                              |                                                                              |                           |                               |                     |
| SIZE: A3                                                                                                                                          |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |    |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                              |                                                              |                                                                              |                           |                               |                     |
| INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION                                                                                    |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |    |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                              |                                                              |                                                                              |                           |                               |                     |

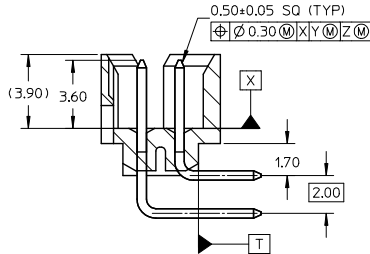
10 9 8 7 6 5 4 3 2 1



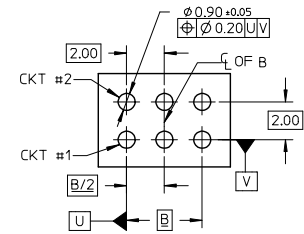
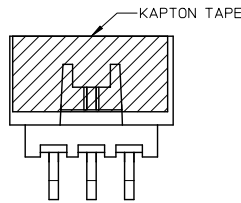
4 TO 6 CIRCUITS



ISO VIEW OF HEADER  
DUAL SIDE SLOTS



SECTION Z-Z



RECOMMENDED PCB LAYOUT

- NOTES:
1. MATERIALS:  
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK  
PIN: 0.50MM SQ PHOSPHOR BRONZE
  2. FINISHES: REFER TO PLATING OPTIONS
  3. PRODUCT SPECIFICATION: PS-87831-027
  4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
  5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND CRIMP TERMINAL: 50394 SERIES  
B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES  
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)
  6. FOR ILLUSTRATION PURPOSE, 6 CIRCUITS HEADER IS SHOWN

| EDIT NOTE 4<br>EC NO: S2017-0022<br>DRAWN: GMENARLY 2016/07/12<br>CHECKED: SCHEONG 2016/07/27<br>APPR: KHL IM 2016/07/28<br>REV A2 | QUALITY SYMBOLS                                 | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                                                                                                                                                                                                                                                                                    | DIMENSION STYLE     | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                                                                                                                                                                                                                  |          |      |       |          |            |                                                    |        |            |        |            |         |     |        |  |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------|--------------|------------------------|------|------|----------|------|------|----------|-------|------|---------|------|------|---------|------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------|----------|------------|----------------------------------------------------|--------|------------|--------|------------|---------|-----|--------|--|
|                                                                                                                                    | $\sqrt{\text{ }}=0$<br>$\nabla=0$<br>$\nabla=0$ | <table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>3 PLACES</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>2 PLACES</td> <td>±0.20</td> <td>±---</td> </tr> <tr> <td>1 PLACE</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>0 PLACE</td> <td>±---</td> <td>±---</td> </tr> </tbody> </table> |                     | mm    | INCH         | 4 PLACES               | ±--- | ±--- | 3 PLACES | ±--- | ±--- | 2 PLACES | ±0.20 | ±--- | 1 PLACE | ±--- | ±--- | 0 PLACE | ±--- | ±--- | <table border="1"> <thead> <tr> <th>DRAWN BY</th> <th>DATE</th> <th>TITLE</th> </tr> </thead> <tbody> <tr> <td>GMENARLY</td> <td>2015/09/29</td> <td rowspan="3">MILLIGRID<br/>2MM PITCH, SMT<br/>R/A SHROUDED HEADER</td> </tr> <tr> <td>CHEONG</td> <td>2015/10/30</td> </tr> <tr> <td>KHL IM</td> <td>2015/11/03</td> </tr> </tbody> </table> | DRAWN BY | DATE | TITLE | GMENARLY | 2015/09/29 | MILLIGRID<br>2MM PITCH, SMT<br>R/A SHROUDED HEADER | CHEONG | 2015/10/30 | KHL IM | 2015/11/03 | MM ONLY | NTS | METRIC |  |
|                                                                                                                                    |                                                 | mm                                                                                                                                                                                                                                                                                                                                                                                                       | INCH                |       |              |                        |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                                                                                                                                                                                                                  |          |      |       |          |            |                                                    |        |            |        |            |         |     |        |  |
|                                                                                                                                    | 4 PLACES                                        | ±---                                                                                                                                                                                                                                                                                                                                                                                                     | ±---                |       |              |                        |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                                                                                                                                                                                                                  |          |      |       |          |            |                                                    |        |            |        |            |         |     |        |  |
| 3 PLACES                                                                                                                           | ±---                                            | ±---                                                                                                                                                                                                                                                                                                                                                                                                     |                     |       |              |                        |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                                                                                                                                                                                                                  |          |      |       |          |            |                                                    |        |            |        |            |         |     |        |  |
| 2 PLACES                                                                                                                           | ±0.20                                           | ±---                                                                                                                                                                                                                                                                                                                                                                                                     |                     |       |              |                        |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                                                                                                                                                                                                                  |          |      |       |          |            |                                                    |        |            |        |            |         |     |        |  |
| 1 PLACE                                                                                                                            | ±---                                            | ±---                                                                                                                                                                                                                                                                                                                                                                                                     |                     |       |              |                        |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                                                                                                                                                                                                                  |          |      |       |          |            |                                                    |        |            |        |            |         |     |        |  |
| 0 PLACE                                                                                                                            | ±---                                            | ±---                                                                                                                                                                                                                                                                                                                                                                                                     |                     |       |              |                        |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                                                                                                                                                                                                                  |          |      |       |          |            |                                                    |        |            |        |            |         |     |        |  |
| DRAWN BY                                                                                                                           | DATE                                            | TITLE                                                                                                                                                                                                                                                                                                                                                                                                    |                     |       |              |                        |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                                                                                                                                                                                                                  |          |      |       |          |            |                                                    |        |            |        |            |         |     |        |  |
| GMENARLY                                                                                                                           | 2015/09/29                                      | MILLIGRID<br>2MM PITCH, SMT<br>R/A SHROUDED HEADER                                                                                                                                                                                                                                                                                                                                                       |                     |       |              |                        |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                                                                                                                                                                                                                  |          |      |       |          |            |                                                    |        |            |        |            |         |     |        |  |
| CHEONG                                                                                                                             | 2015/10/30                                      |                                                                                                                                                                                                                                                                                                                                                                                                          |                     |       |              |                        |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                                                                                                                                                                                                                  |          |      |       |          |            |                                                    |        |            |        |            |         |     |        |  |
| KHL IM                                                                                                                             | 2015/11/03                                      |                                                                                                                                                                                                                                                                                                                                                                                                          |                     |       |              |                        |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                                                                                                                                                                                                                  |          |      |       |          |            |                                                    |        |            |        |            |         |     |        |  |
| ANGULAR ± 3°<br>DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                         | MATERIAL NO.<br>SEE TABLE                       | DOCUMENT NO.<br>SD-87833-0001                                                                                                                                                                                                                                                                                                                                                                            | SHEET NO.<br>2 OF 9 |       |              |                        |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                                                                                                                                                                                                                  |          |      |       |          |            |                                                    |        |            |        |            |         |     |        |  |

9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

4 TO 6 CIRCUITS

| CKT SIZE | ASSY P/N WITHOUT KAPTON IN TUBE | ASSY P/N WITH KAPTON IN TUBE | ASSY P/N WITH KAPTON IN T&R | PLATING OPTIONS | FRICTION LOCKS |        | DUAL SIDE SLOTS | CENTER POLARIZATION | DIMENSION |      |      |      |     |     |                 |
|----------|---------------------------------|------------------------------|-----------------------------|-----------------|----------------|--------|-----------------|---------------------|-----------|------|------|------|-----|-----|-----------------|
|          |                                 |                              |                             |                 | DUAL           | CENTER |                 |                     | A         | B    | C    | D    | E   | F   | G (SOLDER TAIL) |
| 4        | 87833-0419                      | N.A                          | N.A                         | 1               | N.A            | N.A    | YES             | N.A                 | 6.65      | 2.00 | 5.00 | 4.85 | N.A | N.A | 2.16            |
|          | 87833-0420                      | N.A                          | N.A                         | 2               |                |        |                 |                     |           |      |      |      |     | N.A | 3.18            |
|          | 87833-0421                      | N.A                          | N.A                         | 3               | N.A            | 2.16   |                 |                     |           |      |      |      |     |     |                 |
|          | 87833-5920                      | N.A                          | N.A                         | 2               | N.A            | 3.18   |                 |                     |           |      |      |      |     |     |                 |
|          | 87833-0431                      | 87833-0441                   | 87833-0451                  | 2               | N.A            | 1.00   |                 |                     |           |      |      |      |     |     |                 |
|          | 87833-0432                      | N.A                          | N.A                         | 3               | N.A            | 2.16   |                 |                     |           |      |      |      |     |     |                 |
| 6        | 87833-0619                      | N.A                          | N.A                         | 1               | N.A            | N.A    | YES             | N.A                 | 8.65      | 4.00 | 7.00 | 6.85 | N.A | N.A | 2.16            |
|          | 87833-0620                      | N.A                          | N.A                         | 2               |                |        |                 |                     |           |      |      |      |     | N.A | 3.18            |
|          | 87833-0621                      | N.A                          | N.A                         | 3               | N.A            | 2.16   |                 |                     |           |      |      |      |     |     |                 |
|          | 87833-6420                      | N.A                          | N.A                         | 2               | N.A            | 3.18   |                 |                     |           |      |      |      |     |     |                 |
|          | 87833-0631                      | 87833-0641                   | 87833-0651                  | 2               | N.A            | 2.00   |                 |                     |           |      |      |      |     |     |                 |
|          | 87833-0632                      | N.A                          | N.A                         | 3               | N.A            | 3.18   |                 |                     |           |      |      |      |     |     |                 |
|          | 87833-0661                      | N.A                          | N.A                         | 2               | N.A            | 2.16   |                 |                     |           |      |      |      |     |     |                 |
|          | 87833-0624                      | N.A                          | N.A                         | 2               | N.A            | 3.18   |                 |                     |           |      |      |      |     |     |                 |
|          | 87833-0625                      | N.A                          | N.A                         | 3               | N.A            | 2.92   |                 |                     |           |      |      |      |     |     |                 |

PLATING OPTIONS:

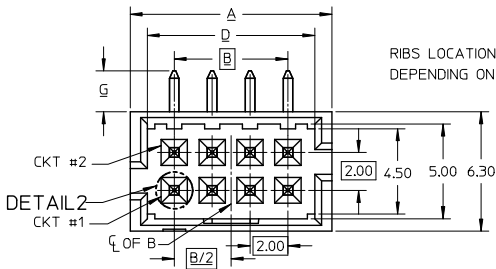
- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.

|                                                                                                                                      |                                                           |                                                      |  |                 |  |                                                                                                                               |              |                        |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------|--|-----------------|--|-------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------|
| SEE SHEET 1.2.4.6<br>EC. NO. S2017-0022<br>DRAWN: MENARLY 2016/07/17<br>CHKD: SCHEONG 2016/07/27<br>APPR: KHLIM 2016/07/28<br>REV A2 | QUALITY SYMBOLS<br>$\nabla=0$<br>$\nabla=0$<br>$\nabla=0$ | GENERAL TOLERANCES (UNLESS SPECIFIED)                |  | DIMENSION STYLE |  | SCALE                                                                                                                         | DESIGN UNITS | THIRD ANGLE PROJECTION |
|                                                                                                                                      |                                                           |                                                      |  | MM ONLY         |  | NTS                                                                                                                           | METRIC       |                        |
|                                                                                                                                      |                                                           |                                                      |  | DRAWN BY DATE   |  | TITLE                                                                                                                         |              |                        |
|                                                                                                                                      |                                                           |                                                      |  | CHECKED BY DATE |  | MILLIGRID<br>2MM PITCH, SMT<br>R/A SHROUDED HEADER                                                                            |              |                        |
|                                                                                                                                      |                                                           | APPROVED BY DATE                                     |  | MATERIAL NO.    |  | DOCUMENT NO.                                                                                                                  |              | SHEET NO.              |
|                                                                                                                                      |                                                           | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  | SEE TABLE       |  | SD-87833-0001                                                                                                                 |              | 3 OF 9                 |
|                                                                                                                                      |                                                           |                                                      |  | SIZE A3         |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                        |

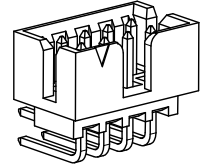
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10 9 8 7 6 5 4 3 2 1

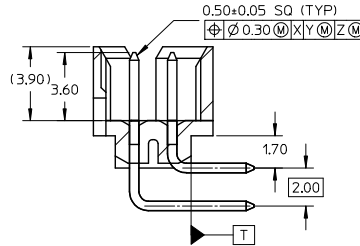
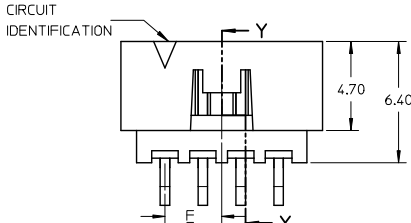
8 TO 12 CIRCUITS



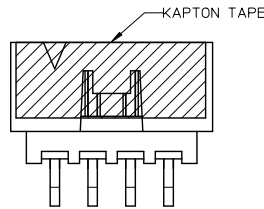
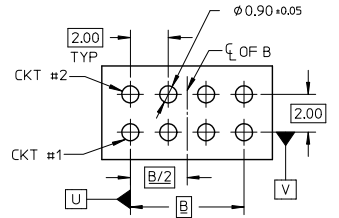
RIBS LOCATIONS VARY  
DEPENDING ON CKT SIZES



ISO VIEW OF HEADER WITH CENTER  
POLARIZATION AND DUAL SIDE SLOTS



SECTION Y-Y



NOTES:

- MATERIALS:  
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK  
PIN: 0.50MM SQ PHOSPHOR BRONZE
- FINISHES: REFER TO PLATING OPTIONS
- PRODUCT SPECIFICATION: PS-87831-027
- PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
- MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 5110 SERIES AND CRIMP TERMINAL: 50394 SERIES  
B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES  
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)
- FOR ILLUSTRATION PURPOSE, 8 CIRCUIT HEADER IS SHOWN

| EDIT NOTE 4<br>EC NO: S2017-0022<br>DRAWN: MENARLY 2016/07/17<br>CHKD: SCHEONG 2016/07/27<br>APPR: KILLIM 2016/07/28<br>A2                                                                                                                                                                                                                        | QUALITY SYMBOLS                                                                                                                               | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                                                                                                                                                                                                                             | DIMENSION STYLE | SCALE    | DESIGN UNITS | THIRD ANGLE PROJECTION |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|--------------|------------------------|----------|------|----------|----------|-------|----------|---------|------|---------|---------|------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|------|----------|------|------|----------|------|------|----------|-------|------|---------|------|------|---------|------|------|--------------------------------------------------------------------------------------------------------------------------|-------|--------------|--------------|-----------|
|                                                                                                                                                                                                                                                                                                                                                   | $\nabla=0$<br>$\nabla=0$<br>$\nabla=0$                                                                                                        | <table border="1"> <tr><th colspan="2">mm</th><th>INCH</th></tr> <tr><td>4 PLACES</td><td>±---</td><td>±---</td></tr> <tr><td>3 PLACES</td><td>±---</td><td>±---</td></tr> <tr><td>2 PLACES</td><td>±0.20</td><td>±---</td></tr> <tr><td>1 PLACE</td><td>±---</td><td>±---</td></tr> <tr><td>0 PLACE</td><td>±---</td><td>±---</td></tr> </table> | mm              |          | INCH         | 4 PLACES               | ±---     | ±--- | 3 PLACES | ±---     | ±---  | 2 PLACES | ±0.20   | ±--- | 1 PLACE | ±---    | ±--- | 0 PLACE | ±---                                                                                                                                                                                                                                                                                                                                              | ±--- | MM ONLY | NTS  | METRIC   |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
|                                                                                                                                                                                                                                                                                                                                                   | mm                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                   | INCH            |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
|                                                                                                                                                                                                                                                                                                                                                   | 4 PLACES                                                                                                                                      | ±---                                                                                                                                                                                                                                                                                                                                              | ±---            |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
| 3 PLACES                                                                                                                                                                                                                                                                                                                                          | ±---                                                                                                                                          | ±---                                                                                                                                                                                                                                                                                                                                              |                 |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
| 2 PLACES                                                                                                                                                                                                                                                                                                                                          | ±0.20                                                                                                                                         | ±---                                                                                                                                                                                                                                                                                                                                              |                 |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
| 1 PLACE                                                                                                                                                                                                                                                                                                                                           | ±---                                                                                                                                          | ±---                                                                                                                                                                                                                                                                                                                                              |                 |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
| 0 PLACE                                                                                                                                                                                                                                                                                                                                           | ±---                                                                                                                                          | ±---                                                                                                                                                                                                                                                                                                                                              |                 |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
| <table border="1"> <tr><th colspan="2">mm</th><th>INCH</th></tr> <tr><td>4 PLACES</td><td>±---</td><td>±---</td></tr> <tr><td>3 PLACES</td><td>±---</td><td>±---</td></tr> <tr><td>2 PLACES</td><td>±0.20</td><td>±---</td></tr> <tr><td>1 PLACE</td><td>±---</td><td>±---</td></tr> <tr><td>0 PLACE</td><td>±---</td><td>±---</td></tr> </table> | mm                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                   | INCH            | 4 PLACES | ±---         | ±---                   | 3 PLACES | ±--- | ±---     | 2 PLACES | ±0.20 | ±---     | 1 PLACE | ±--- | ±---    | 0 PLACE | ±--- | ±---    | <table border="1"> <tr><th colspan="2">mm</th><th>INCH</th></tr> <tr><td>4 PLACES</td><td>±---</td><td>±---</td></tr> <tr><td>3 PLACES</td><td>±---</td><td>±---</td></tr> <tr><td>2 PLACES</td><td>±0.20</td><td>±---</td></tr> <tr><td>1 PLACE</td><td>±---</td><td>±---</td></tr> <tr><td>0 PLACE</td><td>±---</td><td>±---</td></tr> </table> | mm   |         | INCH | 4 PLACES | ±--- | ±--- | 3 PLACES | ±--- | ±--- | 2 PLACES | ±0.20 | ±--- | 1 PLACE | ±--- | ±--- | 0 PLACE | ±--- | ±--- | DRAWN BY: GMENARLY<br>CHECKED BY: CGOH<br>APPROVED BY: KHLIM<br>DATE: 2015/09/29<br>DATE: 2015/10/30<br>DATE: 2015/11/03 | TITLE | MATERIAL NO. | DOCUMENT NO. | SHEET NO. |
| mm                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                               | INCH                                                                                                                                                                                                                                                                                                                                              |                 |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
| 4 PLACES                                                                                                                                                                                                                                                                                                                                          | ±---                                                                                                                                          | ±---                                                                                                                                                                                                                                                                                                                                              |                 |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
| 3 PLACES                                                                                                                                                                                                                                                                                                                                          | ±---                                                                                                                                          | ±---                                                                                                                                                                                                                                                                                                                                              |                 |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
| 2 PLACES                                                                                                                                                                                                                                                                                                                                          | ±0.20                                                                                                                                         | ±---                                                                                                                                                                                                                                                                                                                                              |                 |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
| 1 PLACE                                                                                                                                                                                                                                                                                                                                           | ±---                                                                                                                                          | ±---                                                                                                                                                                                                                                                                                                                                              |                 |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
| 0 PLACE                                                                                                                                                                                                                                                                                                                                           | ±---                                                                                                                                          | ±---                                                                                                                                                                                                                                                                                                                                              |                 |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
| mm                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                               | INCH                                                                                                                                                                                                                                                                                                                                              |                 |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
| 4 PLACES                                                                                                                                                                                                                                                                                                                                          | ±---                                                                                                                                          | ±---                                                                                                                                                                                                                                                                                                                                              |                 |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
| 3 PLACES                                                                                                                                                                                                                                                                                                                                          | ±---                                                                                                                                          | ±---                                                                                                                                                                                                                                                                                                                                              |                 |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
| 2 PLACES                                                                                                                                                                                                                                                                                                                                          | ±0.20                                                                                                                                         | ±---                                                                                                                                                                                                                                                                                                                                              |                 |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
| 1 PLACE                                                                                                                                                                                                                                                                                                                                           | ±---                                                                                                                                          | ±---                                                                                                                                                                                                                                                                                                                                              |                 |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
| 0 PLACE                                                                                                                                                                                                                                                                                                                                           | ±---                                                                                                                                          | ±---                                                                                                                                                                                                                                                                                                                                              |                 |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |
| DRAFT WHERE APPLICABLE<br>WITHIN DIMENSIONS                                                                                                                                                                                                                                                                                                       | SEE TABLE<br>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | MILLIGRID<br>2MM PITCH, SMT<br>R/A SHROUDED HEADER<br><b>molex</b><br>SD-87833-0001<br>4 OF 9                                                                                                                                                                                                                                                     |                 |          |              |                        |          |      |          |          |       |          |         |      |         |         |      |         |                                                                                                                                                                                                                                                                                                                                                   |      |         |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                          |       |              |              |           |

9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

8 TO 12 CIRCUITS

| CKT SIZE   | ASSY P/N WITHOUT KAPTON IN TUBE | ASSY P/N WITH KAPTON IN TUBE | ASSY P/N WITH KAPTON IN T&R | PLATING OPTIONS | FRICTION LOCKS |        | DUAL SIDE SLOTS | CENTER POLARIZATION | DIMENSION |       |       |       |     |     |                 |
|------------|---------------------------------|------------------------------|-----------------------------|-----------------|----------------|--------|-----------------|---------------------|-----------|-------|-------|-------|-----|-----|-----------------|
|            |                                 |                              |                             |                 | DUAL           | CENTER |                 |                     | A         | B     | C     | D     | E   | F   | G (SOLDER TAIL) |
|            |                                 |                              |                             |                 |                |        |                 |                     |           |       |       |       |     |     |                 |
| 8          | 87833-0819                      | N.A                          | N.A                         | 1               |                |        |                 |                     | 10.65     | 6.00  | 9.00  | 8.85  | N.A | N.A | 2.16            |
|            | 87833-0820                      | N.A                          | N.A                         | 2               | N.A            | N.A    | YES             | YES                 |           |       |       |       |     |     |                 |
|            | 87833-0821                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |     |     |                 |
|            | 87833-6320                      | N.A                          | N.A                         | 2               | N.A            | N.A    | YES             | YES                 |           |       |       |       |     |     |                 |
|            | 87833-6321                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |     |     |                 |
|            | 87833-0831                      | 87833-0841                   | 87833-0851                  | 2               | N.A            | YES    | YES             | N.A                 |           |       |       |       |     |     |                 |
|            | 87833-0832                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |     |     |                 |
|            | 87833-0861                      | N.A                          | N.A                         | 2               | N.A            | YES    | YES             | N.A                 |           |       |       |       |     |     |                 |
| 87833-0824 | N.A                             | N.A                          | 2                           | N.A             | N.A            | YES    | YES             |                     |           |       |       |       |     |     |                 |
| 87833-0825 | N.A                             | N.A                          | 3                           |                 |                |        |                 |                     |           |       |       |       |     |     |                 |
| 10         | 87832-1019                      | N.A                          | N.A                         | 1               |                |        |                 |                     | 12.65     | 8.00  | 11.00 | 10.85 | N.A | N.A | 2.16            |
|            | 87833-1020                      | N.A                          | N.A                         | 2               | N.A            | N.A    | YES             | YES                 |           |       |       |       |     |     |                 |
|            | 87833-1021                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |     |     |                 |
|            | 87833-1031                      | N.A                          | N.A                         | 2               | N.A            | YES    | YES             | N.A                 |           |       |       |       |     |     |                 |
|            | 87833-1032                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |     |     |                 |
|            | N.A                             | 87833-1041                   | 87833-1051                  | 2               | N.A            | YES    | YES             | N.A                 |           |       |       |       |     |     |                 |
|            | 87833-1024                      | N.A                          | N.A                         | 2               | N.A            | N.A    | YES             | YES                 |           |       |       |       |     |     |                 |
| 87833-1025 | N.A                             | N.A                          | 3                           |                 |                |        |                 |                     |           |       |       |       |     |     |                 |
| 12         | 87833-1219                      | N.A                          | N.A                         | 1               |                |        |                 |                     | 14.65     | 10.00 | 13.00 | 12.85 | N.A | N.A | 2.16            |
|            | 87833-1220                      | N.A                          | N.A                         | 2               | N.A            | N.A    | YES             | YES                 |           |       |       |       |     |     |                 |
|            | 87833-1221                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |     |     |                 |
|            | 87833-6020                      | N.A                          | N.A                         | 2               | N.A            | N.A    | YES             | YES                 |           |       |       |       |     |     |                 |
|            | 87833-1231                      | N.A                          | N.A                         | 2               | N.A            | YES    | YES             | N.A                 |           |       |       |       |     |     |                 |
|            | 87833-1232                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |     |     |                 |
|            | 87833-1224                      | N.A                          | N.A                         | 2               | N.A            | N.A    | YES             | YES                 |           |       |       |       |     |     |                 |
| 87833-1225 | N.A                             | N.A                          | 3                           |                 |                |        |                 |                     |           |       |       |       |     |     |                 |

PLATING OPTIONS:

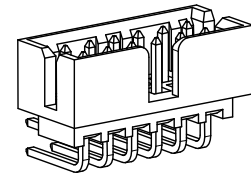
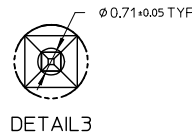
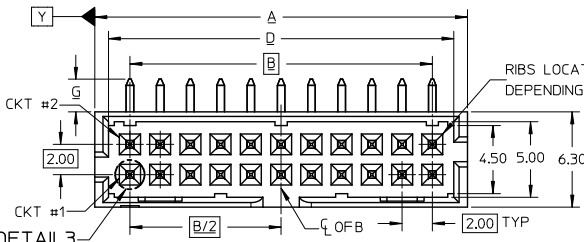
- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.

|                                                                                                                                                       |                                      |                                                      |  |                                      |  |                                                                                                                               |              |                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------|--|--------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------|
| SEE SHEET 12.4.6<br>IEC NO: S2017-0022<br>DRAWN BY: GEMENARLY 2016/07/12<br>CHECKED BY: CHIKO-SCHEONG 2016/07/27<br>APPR: KHLIM 2016/07/28<br>REV: A2 | QUALITY SYMBOLS<br>∇=0<br>∇=0<br>∇=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                |  | DIMENSION STYLE                      |  | SCALE                                                                                                                         | DESIGN UNITS | THIRD ANGLE PROJECTION |
|                                                                                                                                                       |                                      |                                                      |  | MM ONLY                              |  | NTS                                                                                                                           | METRIC       |                        |
|                                                                                                                                                       |                                      |                                                      |  | DRAWN BY: GEMENARLY DATE: 2015/09/29 |  | TITLE: MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER                                                                           |              |                        |
|                                                                                                                                                       |                                      |                                                      |  | CHECKED BY: CGOH DATE: 2015/10/30    |  | APPROVED BY: KHLIM DATE: 2015/11/03                                                                                           |              |                        |
|                                                                                                                                                       |                                      | ANGULAR ± 3°                                         |  | MATERIAL NO. SEE TABLE               |  | DOCUMENT NO. SD-87833-0001                                                                                                    |              | SHEET NO. 5 OF 9       |
|                                                                                                                                                       |                                      | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  | SIZE: A3                             |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                        |

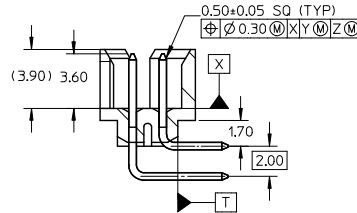
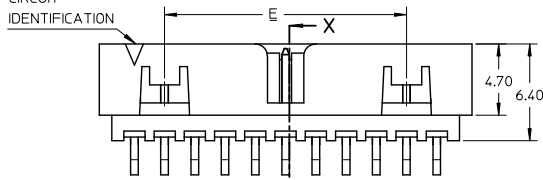
10 9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

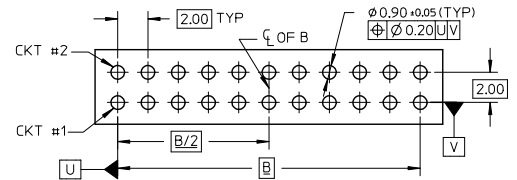
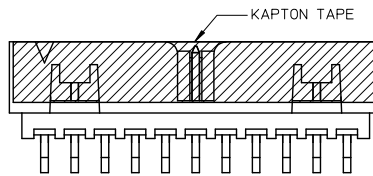
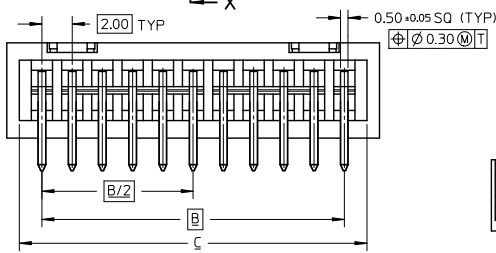
14 TO 50 CIRCUITS



ISO VIEW OF HEADER WITH CENTER POLARIZATION AND DUAL SIDE SLOTS



SECTION X-X



NOTES:

- MATERIALS:  
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK  
PIN: 0.50MM SQ PHOSPHOR BRONZE
- FINISHES: REFER TO PLATING OPTIONS
- PRODUCT SPECIFICATION: PS-87831-027
- PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
- MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND CRIMP TERMINAL: 50394 SERIES  
B. MOLEX 2MM MILLIGRID DUAL ROW IDT: 87568 SERIES  
C. MOLEX 2MM MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)
- FOR ILLUSTRATION PURPOSE, 22 CIRCUITS HEADER IS SHOWN

|                                                                                                                                |                                      |                                                      |      |                 |            |                                                                                                                               |                                                    |                        |  |  |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------|------|-----------------|------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------|--|--|
| <b>EDIT NOTE 4</b><br>EC NO: S2017-0022<br>DRAWN BY: GMENARLY 2016/07/27<br>CHKD: SCHEONG 2016/07/27<br>APPR: KHLIM 2016/07/28 | QUALITY SYMBOLS<br>∇=0<br>∇=0<br>∇=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                |      | DIMENSION STYLE |            | SCALE                                                                                                                         | DESIGN UNITS                                       | THIRD ANGLE PROJECTION |  |  |
|                                                                                                                                |                                      |                                                      | mm   | INCH            | MM ONLY    | NTS                                                                                                                           | METRIC                                             |                        |  |  |
|                                                                                                                                |                                      | 4 PLACES                                             | ±--- | ±---            | DRAWN BY   | DATE                                                                                                                          | TITLE                                              |                        |  |  |
|                                                                                                                                |                                      | 3 PLACES                                             | ±--- | ±---            | GMENARLY   | 2015/09/29                                                                                                                    | MILLIGRID<br>2MM PITCH, SMT<br>R/A SHROUDED HEADER |                        |  |  |
|                                                                                                                                | 2 PLACES                             | ±0.20                                                | ±--- | CHECKED BY      | DATE       | <b>molex</b><br>DOCUMENT NO. SD-87833-0001<br>SHEET NO. 6 OF 9                                                                |                                                    |                        |  |  |
|                                                                                                                                | 1 PLACE                              | ±---                                                 | ±--- | CGOH            | 2015/10/30 |                                                                                                                               |                                                    |                        |  |  |
|                                                                                                                                | 0 PLACE                              | ±---                                                 | ±--- | APPROVED BY     | DATE       |                                                                                                                               |                                                    |                        |  |  |
|                                                                                                                                |                                      |                                                      |      | KHLIM           | 2015/11/03 |                                                                                                                               |                                                    |                        |  |  |
|                                                                                                                                |                                      | ANGULAR ± 3°                                         |      | MATERIAL NO.    |            |                                                                                                                               |                                                    |                        |  |  |
|                                                                                                                                |                                      | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |      | SEE TABLE       |            |                                                                                                                               |                                                    |                        |  |  |
|                                                                                                                                |                                      |                                                      |      | SIZE A3         |            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                    |                        |  |  |

9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

14 TO 24 CIRCUITS

| CKT SIZE   | ASSY P/N WITHOUT KAPTON IN TUBE | ASSY P/N WITH KAPTON IN TUBE | ASSY P/N WITH KAPTON IN T&R | PLATING OPTIONS | FRICTION LOCKS |        | DUAL SIDE SLOTS | CENTER POLARIZATION | DIMENSION |       |       |       |       |     |                 |
|------------|---------------------------------|------------------------------|-----------------------------|-----------------|----------------|--------|-----------------|---------------------|-----------|-------|-------|-------|-------|-----|-----------------|
|            |                                 |                              |                             |                 | DUAL           | CENTER |                 |                     | A         | B     | C     | D     | E     | F   | G (SOLDER TAIL) |
| 14         | 87833-1419                      | N.A                          | N.A                         | 1               |                |        |                 |                     | 16.65     | 12.00 | 15.00 | 14.85 | 8.00  | N.A | 2.16            |
|            | 87833-1420                      | N.A                          | N.A                         | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     | 3.18            |
|            | 87833-1421                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     | 3.50            |
|            | 87833-5320                      | N.A                          | N.A                         | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |
|            | 87833-5321                      | N.A                          | N.A                         | 3               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |
| 87833-1436 | N.A                             | N.A                          | N.A                         | 3               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |
| 16         | 87833-1619                      | N.A                          | N.A                         | 1               |                |        |                 |                     | 18.65     | 14.00 | 17.00 | 16.85 | 10.00 | N.A | 2.16            |
|            | 87833-1620                      | N.A                          | N.A                         | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     | 3.18            |
|            | 87833-1621                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     |                 |
|            | 87833-6120                      | N.A                          | 87833-7120                  | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |
| 18         | 87833-1819                      | N.A                          | N.A                         | 1               |                |        |                 |                     | 20.65     | 16.00 | 19.00 | 18.85 | 12.00 | N.A | 2.16            |
|            | 87833-1820                      | N.A                          | N.A                         | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     | 3.18            |
|            | 87833-1821                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     |                 |
|            | 87833-6220                      | N.A                          | N.A                         | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |
| 20         | 87833-2019                      | N.A                          | N.A                         | 1               |                |        |                 |                     | 22.65     | 18.00 | 21.00 | 20.85 | 14.00 | N.A | 2.16            |
|            | 87833-2020                      | N.A                          | 87833-7220                  | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     | 3.18            |
|            | 87833-2021                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     | 3.50            |
|            | 87833-6520                      | N.A                          | N.A                         | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |
|            | 87833-6521                      | N.A                          | N.A                         | 3               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |
|            | 87833-2036                      | N.A                          | N.A                         | 3               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |
| 22         | 87833-2219                      | N.A                          | N.A                         | 1               |                |        |                 |                     | 24.65     | 20.00 | 23.00 | 22.85 | 16.00 | N.A | 2.16            |
|            | 87833-2220                      | N.A                          | N.A                         | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |
|            | 87833-2221                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     |                 |
| 24         | 87833-2419                      | N.A                          | N.A                         | 1               |                |        |                 |                     | 26.65     | 22.00 | 25.00 | 24.85 | 18.00 | N.A | 2.16            |
|            | 87833-2420                      | N.A                          | 87833-7020                  | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     | 3.50            |
|            | 87833-2421                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     | 3.27            |
|            | 87833-2436                      | N.A                          | N.A                         | 3               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |
|            | 87833-6920                      | N.A                          | N.A                         | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |

PLATING OPTIONS:

- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.

|                                                                                                                                           |                                        |                                                                                                                     |                                                                                                                               |                     |              |                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|------------------------------------------------------------|
| SEE SHEET 1.2.4.6<br>EC NO. S2017-0022<br>DRAWN:HEARLY 2016/07/17<br>CHKD:SCHEONG 2016/07/27<br>APPR:KILLIM 2016/07/28<br>REV DESCRIPTION | QUALITY SYMBOLS                        | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                               | DIMENSION STYLE                                                                                                               | SCALE               | DESIGN UNITS | THIRD ANGLE PROJECTION                                     |
|                                                                                                                                           | $\nabla=0$<br>$\nabla=0$<br>$\nabla=0$ | 4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± 0.20 ± ---<br>1 PLACE ± --- ± ---<br>0 PLACE ± --- ± --- | MM ONLY                                                                                                                       | NTS                 | METRIC       | <input checked="" type="checkbox"/> THIRD ANGLE PROJECTION |
|                                                                                                                                           |                                        | ANGULAR ± 3°                                                                                                        |                                                                                                                               |                     |              |                                                            |
|                                                                                                                                           |                                        | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                |                                                                                                                               |                     |              |                                                            |
|                                                                                                                                           |                                        |                                                                                                                     | DRAWN BY DATE                                                                                                                 | TITLE               |              |                                                            |
|                                                                                                                                           |                                        |                                                                                                                     | GMENARLY 2015/09/29                                                                                                           | MILLIGRID           |              |                                                            |
|                                                                                                                                           |                                        |                                                                                                                     | CHECKED BY DATE                                                                                                               | 2MM PITCH, SMT      |              |                                                            |
|                                                                                                                                           |                                        |                                                                                                                     | CGOH 2015/10/30                                                                                                               | R/A SHROUDED HEADER |              |                                                            |
|                                                                                                                                           |                                        |                                                                                                                     | APPROVED BY DATE                                                                                                              |                     |              |                                                            |
|                                                                                                                                           |                                        |                                                                                                                     | KHLIM 2015/11/03                                                                                                              |                     |              |                                                            |
|                                                                                                                                           |                                        |                                                                                                                     | MATERIAL NO.                                                                                                                  | DOCUMENT NO.        |              |                                                            |
|                                                                                                                                           |                                        |                                                                                                                     | SEE TABLE                                                                                                                     | SD-87833-0001       |              |                                                            |
|                                                                                                                                           |                                        |                                                                                                                     | SIZE A3                                                                                                                       |                     |              |                                                            |
|                                                                                                                                           |                                        |                                                                                                                     | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                     |              |                                                            |

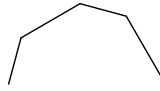
10 9 8 7 6 5 4 3 2 1



10 9 8 7 6 5 4 3 2 1

26 TO 38 CIRCUITS

| CKT SIZE | ASSY P/N WITHOUT KAPTON IN TUBE | ASSY P/N WITH KAPTON IN TUBE | ASSY P/N WITH KAPTON IN T&R | PLATING OPTIONS | FRICTION LOCKS |        | DUAL SIDE SLOTS | CENTER POLARIZATION | DIMENSION |       |       |       |       |     |                 |      |
|----------|---------------------------------|------------------------------|-----------------------------|-----------------|----------------|--------|-----------------|---------------------|-----------|-------|-------|-------|-------|-----|-----------------|------|
|          |                                 |                              |                             |                 | DUAL           | CENTER |                 |                     | A         | B     | C     | D     | E     | F   | G (SOLDER TAIL) |      |
| 26       | 87833-2619                      | N.A                          | N.A                         | 1               |                |        |                 |                     | 28.65     | 24.00 | 27.00 | 26.85 | 20.00 | N.A | 2.16            |      |
|          | 87833-2620                      | N.A                          | N.A                         | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |      |
|          | 87833-2621                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     |                 |      |
|          | 87833-2636                      | N.A                          | N.A                         | 3               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 | 3.50 |
| 28       | 87833-2819                      | N.A                          | N.A                         | 1               |                |        |                 |                     | 30.65     | 26.00 | 29.00 | 28.85 | 22.00 | N.A | 2.16            |      |
|          | 87833-2820                      | N.A                          | N.A                         | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |      |
|          | 87833-2821                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     |                 |      |
|          | 87833-6620                      | N.A                          | N.A                         | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 | 3.18 |
| 30       | 87832-3019                      | N.A                          | N.A                         | 1               |                |        |                 |                     | 32.65     | 28.00 | 31.00 | 30.85 | 24.00 | N.A | 2.16            |      |
|          | 87833-3020                      | N.A                          | N.A                         | 2               |                |        |                 |                     |           |       |       |       |       |     |                 |      |
|          | 87833-3021                      | N.A                          | N.A                         | 3               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |      |
|          | 87833-6720                      | N.A                          | N.A                         | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 | 3.18 |
|          | 87833-6721                      | N.A                          | N.A                         | 3               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 | 3.50 |
| 32       | 87833-3219                      | N.A                          | N.A                         | 1               |                |        |                 |                     | 34.65     | 30.00 | 33.00 | 32.85 | 26.00 | N.A | 2.16            |      |
|          | 87833-3220                      | N.A                          | N.A                         | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |      |
|          | 87833-3221                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     |                 |      |
| 34       | 87833-3419                      | N.A                          | N.A                         | 1               |                |        |                 |                     | 36.65     | 32.00 | 35.00 | 34.85 | 28.00 | N.A | 2.16            |      |
|          | 87833-3420                      | N.A                          | N.A                         | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |      |
|          | 87833-3421                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     |                 |      |
|          | 87833-5420                      | N.A                          | N.A                         | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 | 3.18 |
|          | 87833-3424                      | N.A                          | N.A                         | 2               | N.A            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 | 2.92 |
| 36       | 87833-3619                      | N.A                          | N.A                         | 1               |                |        |                 |                     | 38.65     | 34.00 | 37.00 | 36.85 | 30.00 | N.A | 2.16            |      |
|          | 87833-3620                      | N.A                          | N.A                         | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |      |
|          | 87833-3621                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     |                 |      |
| 38       | 87833-3819                      | N.A                          | N.A                         | 1               |                |        |                 |                     | 40.65     | 36.00 | 39.00 | 38.85 | 32.00 | N.A | 2.16            |      |
|          | 87833-3820                      | N.A                          | N.A                         | 2               | YES            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |      |
|          | 87833-3821                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     |                 |      |



PLATING OPTIONS:

- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.

| SEE SHEET 12.4.6<br>IEC NO. S2017-0022<br>DRAWN BY: GEMENARLY 2016/07/27<br>CHECKED BY: CHYK-SCHONG 2016/07/27<br>APPR: KHLIM 2016/07/28<br>REV: A2 | QUALITY SYMBOLS<br>∇=0<br>∇=0<br>∇=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br><table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>3 PLACES</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>2 PLACES</td> <td>±0.20</td> <td>±---</td> </tr> <tr> <td>1 PLACE</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>0 PLACE</td> <td>±---</td> <td>±---</td> </tr> </table> |      | mm | INCH | 4 PLACES | ±--- | ±--- | 3 PLACES | ±--- | ±--- | 2 PLACES | ±0.20 | ±--- | 1 PLACE | ±--- | ±--- | 0 PLACE | ±--- | ±--- | DIMENSION STYLE<br>MM ONLY<br>DRAWN BY: GEMENARLY DATE: 2015/09/29<br>CHECKED BY: CGOH DATE: 2015/10/30<br>APPROVED BY: KHLIM DATE: 2015/11/03 | SCALE: NTS<br>DESIGN UNITS: METRIC<br>THIRD ANGLE PROJECTION | TITLE: MILLIGRID 2MM PITCH, SMT R/A SHROUDED HEADER<br><b>molex</b><br>MATERIAL NO.: SEE TABLE<br>DOCUMENT NO.: SD-87833-0001<br>SHEET NO.: 8 OF 9 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|------|----------|------|------|----------|------|------|----------|-------|------|---------|------|------|---------|------|------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                     |                                      | mm                                                                                                                                                                                                                                                                                                                                                                                                              | INCH |    |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                |                                                              |                                                                                                                                                    |
|                                                                                                                                                     | 4 PLACES                             | ±---                                                                                                                                                                                                                                                                                                                                                                                                            | ±--- |    |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                |                                                              |                                                                                                                                                    |
|                                                                                                                                                     | 3 PLACES                             | ±---                                                                                                                                                                                                                                                                                                                                                                                                            | ±--- |    |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                |                                                              |                                                                                                                                                    |
| 2 PLACES                                                                                                                                            | ±0.20                                | ±---                                                                                                                                                                                                                                                                                                                                                                                                            |      |    |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                |                                                              |                                                                                                                                                    |
| 1 PLACE                                                                                                                                             | ±---                                 | ±---                                                                                                                                                                                                                                                                                                                                                                                                            |      |    |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                |                                                              |                                                                                                                                                    |
| 0 PLACE                                                                                                                                             | ±---                                 | ±---                                                                                                                                                                                                                                                                                                                                                                                                            |      |    |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                |                                                              |                                                                                                                                                    |
| ANGULAR ± 3°<br>DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS                                                                             |                                      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION                                                                                                                                                                                                                                                                                   |      |    |      |          |      |      |          |      |      |          |       |      |         |      |      |         |      |      |                                                                                                                                                |                                                              |                                                                                                                                                    |

10 9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

40 TO 50 CIRCUITS

| CKT SIZE | ASSY P/N WITHOUT KAPTON IN TUBE | ASSY P/N WITH KAPTON IN TUBE | ASSY P/N WITH KAPTON IN T&R | PLATING OPTIONS | FRICTION LOCKS |        | DUAL SIDE SLOTS | CENTER POLARIZATION | DIMENSION |       |       |       |       |     |                 |
|----------|---------------------------------|------------------------------|-----------------------------|-----------------|----------------|--------|-----------------|---------------------|-----------|-------|-------|-------|-------|-----|-----------------|
|          |                                 |                              |                             |                 | DUAL           | CENTER |                 |                     | A         | B     | C     | D     | E     | F   | G (SOLDER TAIL) |
|          |                                 |                              |                             |                 |                |        |                 |                     |           |       |       |       |       |     |                 |
| 40       | 87833-4019                      | N.A                          | N.A                         | 1               | YES            | N.A    | YES             | YES                 | 42.65     | 38.00 | 41.00 | 40.85 | 34.00 | N.A | 2.16            |
|          | 87833-4020                      | N.A                          | N.A                         | 2               |                |        |                 |                     |           |       |       |       |       |     |                 |
|          | 87833-4021                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     |                 |
| 42       | 87833-4219                      | N.A                          | N.A                         | 1               | YES            | N.A    | YES             | YES                 | 44.65     | 40.00 | 43.00 | 42.85 | 36.00 | N.A | 2.16            |
|          | 87833-4220                      | N.A                          | N.A                         | 2               |                |        |                 |                     |           |       |       |       |       |     |                 |
|          | 87833-4221                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     |                 |
| 44       | 87833-4419                      | N.A                          | N.A                         | 1               | YES            | N.A    | YES             | YES                 | 46.65     | 42.00 | 45.00 | 44.85 | 38.00 | N.A | 2.16            |
|          | 87833-4420                      | N.A                          | N.A                         | 2               |                |        |                 |                     |           |       |       |       |       |     |                 |
|          | 87833-4421                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     |                 |
|          | 87833-4424                      | N.A                          | N.A                         | 2               | N.A            | N.A    | YES             | YES                 |           |       |       |       |       |     |                 |
|          | 87833-4425                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     |                 |
| 46       | 87833-4619                      | N.A                          | N.A                         | 1               | YES            | N.A    | YES             | YES                 | 48.65     | 44.00 | 47.00 | 46.85 | 40.00 | N.A | 2.16            |
|          | 87833-4620                      | N.A                          | N.A                         | 2               |                |        |                 |                     |           |       |       |       |       |     |                 |
|          | 87833-4621                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     |                 |
| 48       | 87833-4819                      | N.A                          | N.A                         | 1               | YES            | N.A    | YES             | YES                 | 50.65     | 46.00 | 49.00 | 48.85 | 42.00 | N.A | 2.16            |
|          | 87833-4820                      | N.A                          | N.A                         | 2               |                |        |                 |                     |           |       |       |       |       |     |                 |
|          | 87833-4821                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     |                 |
| 50       | 87833-5019                      | N.A                          | N.A                         | 1               | YES            | N.A    | YES             | YES                 | 52.65     | 48.00 | 51.00 | 50.85 | 44.00 | N.A | 0.15            |
|          | 87833-5020                      | N.A                          | N.A                         | 2               |                |        |                 |                     |           |       |       |       |       |     |                 |
|          | 87833-5021                      | N.A                          | N.A                         | 3               |                |        |                 |                     |           |       |       |       |       |     |                 |

PLATING OPTIONS:

- 1 - 0.05-0.13um/2-5uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 2 - 0.38um/15uin MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- 3 - 0.76um/30uin MIN. GOLD IN CONTACT AREA AND 1.88um/75uin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.

|                                                                                                                                    |                                                         |                                              |                             |                                       |                               |                                                                          |                                          |                                |  |
|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-----------------------------|---------------------------------------|-------------------------------|--------------------------------------------------------------------------|------------------------------------------|--------------------------------|--|
| <p>SEE SHEET 1.2.4.6<br/>EC. NO. S2017-0022<br/>DRAWN:EMEARLY 2016/07/17<br/>CHKD:SCHEONG 2016/07/27<br/>APPR:KHLIM 2016/07/28</p> | <p>QUALITY SYMBOLS</p> <p>∇=0</p> <p>∇=0</p> <p>∇=0</p> | <p>GENERAL TOLERANCES (UNLESS SPECIFIED)</p> |                             | <p>DIMENSION STYLE</p> <p>MM ONLY</p> |                               | <p>SCALE</p> <p>NTS</p>                                                  | <p>DESIGN UNITS</p> <p>METRIC</p>        | <p>THIRD ANGLE PROJECTION</p>  |  |
|                                                                                                                                    |                                                         | <p>4 PLACES ± --- ± ---</p>                  | <p>3 PLACES ± --- ± ---</p> | <p>DRAWN BY</p> <p>GMENARLY</p>       | <p>DATE</p> <p>2015/09/29</p> | <p>TITLE</p> <p>MILLIGRID<br/>2MM PITCH, SMT<br/>R/A SHROUDED HEADER</p> |                                          |                                |  |
|                                                                                                                                    |                                                         | <p>2 PLACES ± 0.20 ± ---</p>                 | <p>1 PLACE ± --- ± ---</p>  | <p>CHECKED BY</p> <p>CGOH</p>         | <p>DATE</p> <p>2015/10/30</p> | <p><b>molex</b></p>                                                      |                                          |                                |  |
|                                                                                                                                    |                                                         | <p>0 PLACE ± --- ± ---</p>                   | <p>ANGULAR ± 3°</p>         | <p>APPROVED BY</p> <p>KHLIM</p>       | <p>DATE</p> <p>2015/11/03</p> | <p>MATERIAL NO.</p> <p>SEE TABLE</p>                                     | <p>DOCUMENT NO.</p> <p>SD-87833-0001</p> | <p>SHEET NO.</p> <p>9 OF 9</p> |  |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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