

## Excellent Integrated System Limited

Stocking Distributor

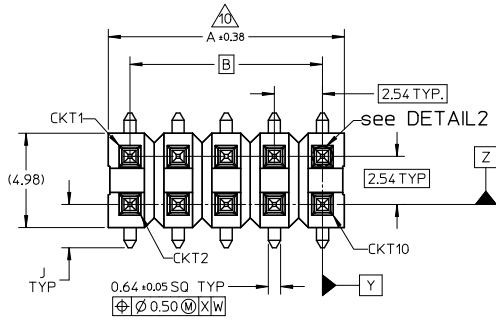
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Molex Connector Corporation](#)  
[0879390800](#)

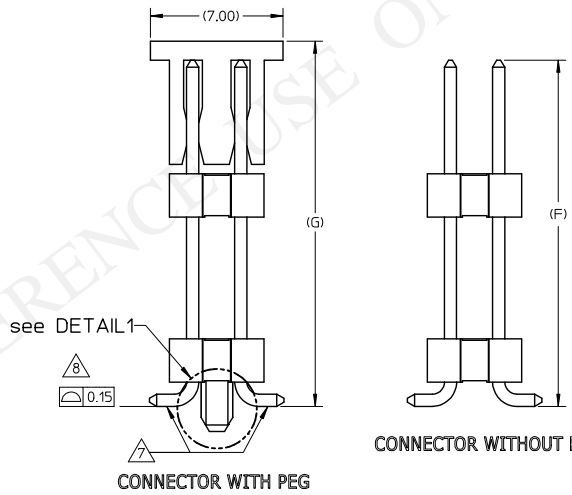
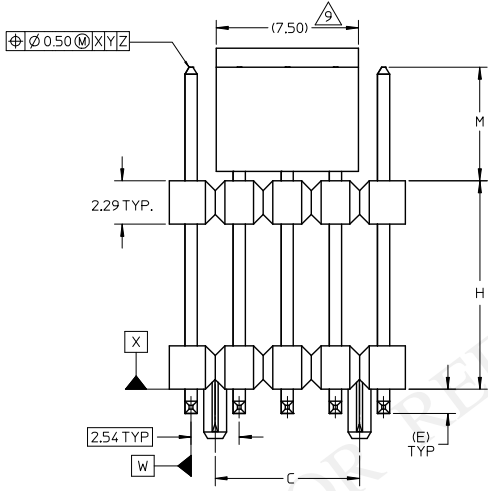
For any questions, you can email us directly:

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

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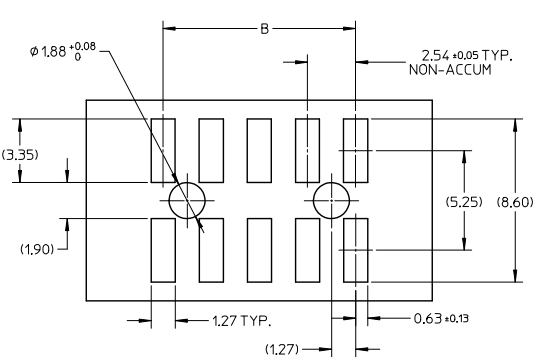
| CKT SIZE | DIMENSION |       |       |
|----------|-----------|-------|-------|
|          | A         | B     | C     |
| 04       | 5.08      | 2.54  | -     |
| 06       | 7.62      | 5.08  | -     |
| 08       | 10.16     | 7.62  | 5.08  |
| 10       | 12.70     | 10.16 | 7.62  |
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| 36       | 45.72     | 43.18 | 40.64 |
| 38       | 48.26     | 45.72 | 43.18 |
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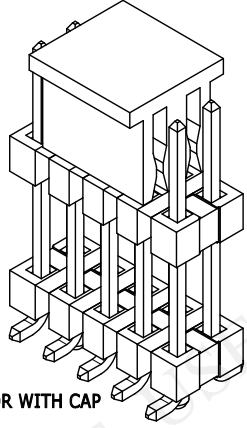
|   |  |                                       |                         |   |                        |                        |
|---|--|---------------------------------------|-------------------------|---|------------------------|------------------------|
| SEE SHEET 4<br>EC. NO. S2016-1033<br>DRAWN: MRAMAKRISHNA 2016/05/09<br>CHKD: MRAMAKRISHNA 2016/06/28<br>APPR: MRAMAKRISHNA 2016/06/28 | QUALITY SYMBOLS                                      | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE         | SCALE   | DESIGN UNITS           | THIRD ANGLE PROJECTION |
|   | ▽=0  | mm INCH                               | MM ONLY                 | NTS   | METRIC                 |                        |
|   | ▽=0  | 4 PLACES ± --- ± ---                  | DRAWN BY DATE           |   |                        | TITLE                  |
|   |  | 3 PLACES ± --- ± ---                  | MRAMAKRISHNA 2015/11/04 |   |                        | CUSTOM HEADER          |
|   | 2 PLACES ± 0.2 ± ---                                 | CHECKED BY DATE                       |                         |   | 2.54MM PITCH DUAL ROW  |                        |
|   | 1 PLACE ± --- ± ---                                  | MRAMAKRISHNA 2015/11/04               |                         |   | HEADER, DUAL WAFER SMT |                        |
|   | ANGULAR ± 3°   | APPROVED BY DATE                      |                         |   | MOLEX INCORPORATED     |                        |
|   |  | MRAMAKRISHNA 2015/12/08               |                         |   |                        |                        |
|   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | MATERIAL NO.                          | SEE TABLE               | DOCUMENT NO.  | SD-87939-0001          | SHEET NO. 1 OF 4       |
|   |  | SIZE                                  | A3                      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                        |

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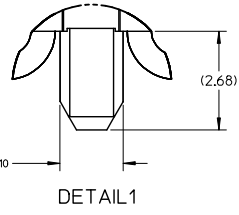
10 9 8 7 6 5 4 3 2 1



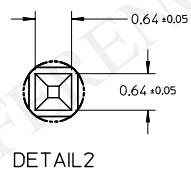
**RECOMMENDED PCB LAYOUT: SOLDER SIDE**



**ISO VIEW CONNECTOR WITH CAP**



**DETAIL 1**



**DETAIL 2**

**NOTES**

1. MATERIAL:
  - HSG: LCP, GLASS-FILLED, UL94V-0, COLOR: BLACK
  - CAP: NYLON, GLASS-FILLED, UL94V-0, COLOR: BLACK
  - PIN: 0.64MM SQ, COPPER ALLOY
2. PLATING TYPE:
  - (1) GOLD FLASH OVER  
1.25µm MIN. NICKEL OVERALL
  - (2) 0.05µm MIN. GOLD PLATE ON CONTACT AND  
2.50µm MIN. TIN ON SOLDER TAIL OVER  
1.25µm MIN. NICKEL OVERALL.
  - (3) 0.38µm MIN. GOLD PLATE ON CONTACT AND  
2.00µm MIN. TIN ON SOLDER TAIL OVER  
1.25µm MIN. NICKEL OVERALL.
  - (4) 0.75µm MIN. GOLD PLATE ON CONTACT AND  
2.00µm MIN. TIN ON SOLDER TAIL OVER  
1.25µm MIN. NICKEL OVERALL.
  - (5) 2.50µm MIN. TIN OVERALL  
1.25µm MIN. NICKEL OVERALL
3. PACKAGING TYPE: SEE TABLE
4. PCB THICKNESS 1.60±0.10mm
5. PRODUCT SPECIFICATION: PS-87920-019
6. WAFER TO BE FLAT WITHIN 0.003 mm/mm
7. BEND DEPRESSION IS ACCEPTED SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY OF TAIL
8. COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A FLAT SURFACE
9. TOP SURFACE OF CAP TO BE FLAT FOR THE PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE
10. IRREGULAR CIRCUIT CUTOFF WITHIN BREAKAWAY SECTION IS PERMISSIBLE. CUTTING OR CHIPPING OF THE MAIN BODY IS NOT ACCEPTABLE
11. PARTS ARE NOT STACKABLE ON 2.54 CENTER
12. THE ABOVE CKT 10 IS FOR ILLUSTRATION PURPOSE ONLY
13. TUBE LENGTH IS 560MM PER STANDARD
14. PACKAGING SPECIFICATION: PLS REFER TO SHEET 3

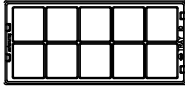
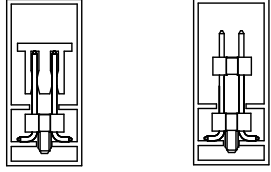
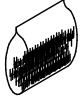
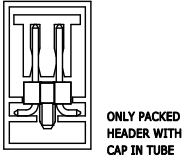
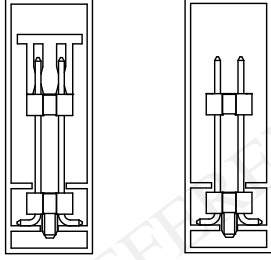
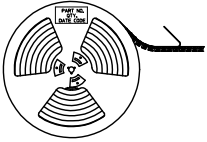
FOR REFERENCE ONLY

| SEE SHEET 4<br>EC. NO.: S2016-1033<br>DRAWN: MRAMAKRISHNA 2016/05/09<br>CHKCD: MRAMAKRISHNA 2016/06/28<br>APPR: MRAMAKRISHNA 2016/06/28 | QUALITY SYMBOLS<br>▽=0<br>▽=0                        | GENERAL TOLERANCES (UNLESS SPECIFIED)<br><table border="1" style="width: 100%; border-collapse: collapse;"> <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>± 0.2</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td colspan="3" style="text-align: center;">ANGULAR ± 3°</td> </tr> </tbody> </table> |   | mm                 | INCH                          | 4 PLACES            | ± --- | ± --- | 3 PLACES | ± --- | ± --- | 2 PLACES | ± 0.2 | ± --- | 1 PLACE | ± --- | ± --- | ANGULAR ± 3° |  |  | DIMENSION STYLE<br>MM ONLY | SCALE<br>NTS | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |
|---|--|---|---|--------------------|-------------------------------|---------------------|-------|-------|----------|-------|-------|----------|-------|-------|---------|-------|-------|--------------|--|--|----------------------------|--------------|------------------------|------------------------|
|   |  | mm  | INCH  |                    |                               |                     |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
|   | 4 PLACES   | ± ---   | ± ---   |                    |                               |                     |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
|   | 3 PLACES   | ± ---   | ± ---   |                    |                               |                     |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
| 2 PLACES  | ± 0.2  | ± ---   |   |                    |                               |                     |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
| 1 PLACE   | ± ---  | ± ---   |   |                    |                               |                     |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
| ANGULAR ± 3°  |  |   |   |                    |                               |                     |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
| DRAWN BY: MRAMAKRISHNA 2015/11/04<br>CHECKED BY: MRAMAKRISHNA 2015/11/04<br>APPROVED BY: MRAMAKRISHNA 2015/12/08                        | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | MATERIAL NO.<br>SEE TABLE   | TITLE<br>CUSTOM HEADER<br>2.54MM PITCH DUAL ROW<br>HEADER, DUAL WAFER SMT | MOLEX INCORPORATED | DOCUMENT NO.<br>SD-87939-0001 | SHEET NO.<br>2 OF 4 |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION           |  |   |   |                    |                               |                     |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
| SIZE: A3  |  |   |   |                    |                               |                     |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |

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**PACKAGING SPECIFICATION OVERVIEW**

| ITEM | PACKAGING TYPE | PACKAGING SPECIFICATION | RECOMMENDED LOADED ASSY HEIGHT | PART PACKED IN PACKAGING ORIENTATION (FOR REF. USE ONLY)                          | ITEM | PACKAGING TYPE | PACKAGING SPECIFICATION           | RECOMMENDED LOADED ASSY HEIGHT | PART PACKED IN PACKAGING ORIENTATION (FOR REF. USE ONLY)                            |
|------|----------------|-------------------------|--------------------------------|---|------|----------------|-----------------------------------|--------------------------------|---|
| 1    | TRAY           | PK-89990-489            | DIM G/F= 60,0MM MAX.           |  | 4    | TUBE           | PK-89990-507                      | DIM G/F= <16,0MM               |  |
| 2    | BULK           | PK-89990-491            | -                              |  | 5    | TUBE           | PK-89990-478                      | DIM G/F= 10,7MM MAX.           |  |
| 3    | TUBE           | PK-89990-508            | DIM G/F= 16,1-23,0MM           |  | 6    | TAPE & REEL    | PK-89990-486 (REEL Ø: 330,0 MAX.) | DIM G/F= 15,0MM MAX.           |  |

FOR REFERENCE USE ONLY

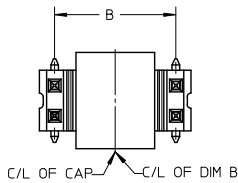
|  |                               |                                       |            |                        |            |               |              |                        |  |  |
|--|-------------------------------|---------------------------------------|------------|------------------------|------------|---------------|--------------|------------------------|--|--|
| SEE SHEET 4<br>EC. NO.: S2016-1033<br>DRAWN: MRAMAKRISHNA 2016/05/09<br>CHKD: MRAMAKRISHNA 2016/06/28<br>APPR: MRAMAKRISHNA 2016/06/28 | QUALITY SYMBOLS<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 ± ---                        | ± ---      | MRAMAKRISHNA           | 2015/11/04 | CUSTOM HEADER |              |                        |  |  |
| 2 PLACES ± 0.2   | ± ---                         | CHECKED BY                            | DATE       | 2.54MM PITCH DUAL ROW  |            |               |              |                        |  |  |
| 1 PLACE ± ---  | ± ---                         | MRAMAKRISHNA                          | 2015/11/04 | HEADER, DUAL WAFER SMT |            |               |              |                        |  |  |
| ANGULAR ± 3 °  |                               | APPROVED BY                           | DATE       | MATERIAL NO.           |            | DOCUMENT NO.  |              | SHEET NO.              |  |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS   |                               | MRAMAKRISHNA                          | 2015/12/08 | SEE TABLE              |            | SD-87939-0001 |              | 3 OF 4                 |  |  |
| 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

| PART NUMBER IN PACKAGING OPTION |                         |               |                  |                      |                      |                         | CKT SIZE | PEG | PLATE OPT. | PK SPEC. | DIMENSION |       |              |                  |      |      |
|---------------------------------|-------------------------|---------------|------------------|----------------------|----------------------|-------------------------|----------|-----|------------|----------|-----------|-------|--------------|------------------|------|------|
| TRAY PACKED WITH CAP            | TRAY PACKED WITHOUT CAP | TUBE WITH CAP | TUBE WITHOUT CAP | TAPE & REEL WITH CAP | BULK PACKED WITH CAP | BULK PACKED WITHOUT CAP |          |     |            |          | G         | F     | MATING END M | STACKER HEIGHT H | E    | J    |
| -                               | -                       | -             | -                | 87939-0400           | -                    | -                       | 4        | N   | 5          | 6        | 30.27     | 29.27 | 12.00        | 16.00            | 1.27 | 2.22 |
| -                               | -                       | -             | -                | 87939-0801           | -                    | -                       | 8        | N   | 5          | 6        | 15.52     | 14.52 | 6.50         | 6.75             | 1.27 | 2.28 |
| -                               | 87939-3600              | -             | -                | -                    | -                    | -                       | 36       | N   | 3          | 1        | -         | 12.72 | 5.00         | 6.45             | 1.27 | 2.22 |
| -                               | -                       | -             | -                | 87939-5400           | -                    | -                       | 54       | N   | 3          | 6        | 18.25     | 16.75 | 6.10         | 9.38             | 1.27 | 2.28 |

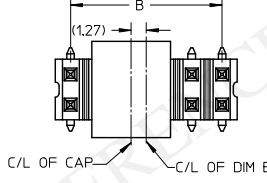
CAP POSITION ILLUSTRATION FOR REFERENCE

FOR ILLUSTRATION 10CKT AS SHOWN



C/L OF DIM B = C/L OF CAP  
FOR ODD CKT COLUMN

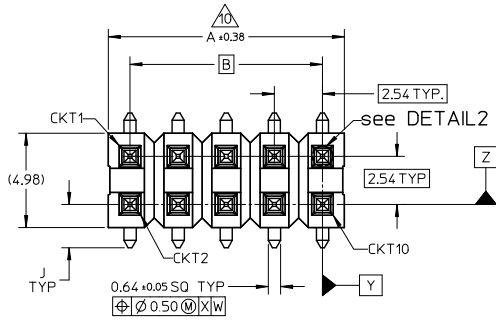
FOR ILLUSTRATION 12CKT AS SHOWN



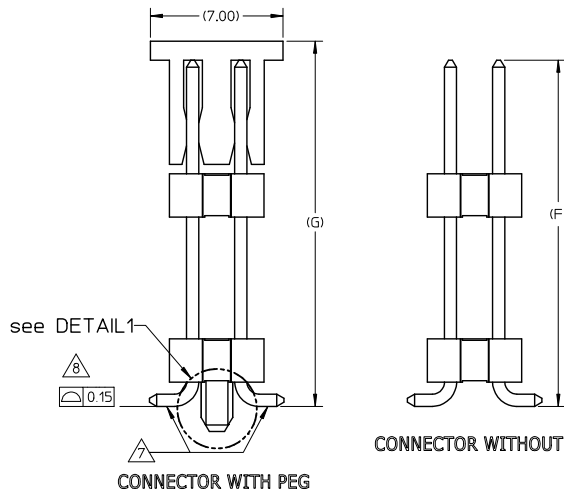
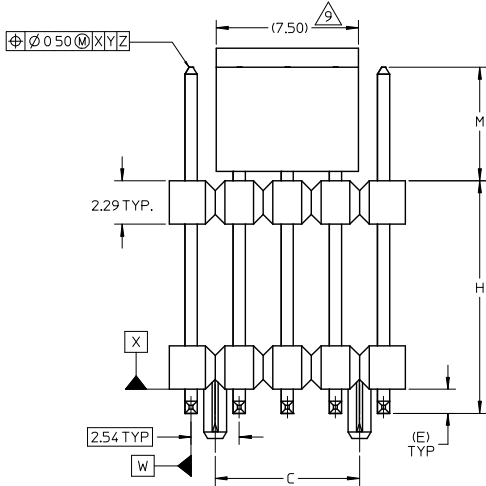
C/L OF DIM B IS OFFSET WITH C/L OF CAP  
FOR EVEN CKT COLUMN

| ADD P/N 87939-0400<br>EC. NO. S2016-1033<br>DRAWN: MRAMAKRISHNA 2016/05/09<br>CHKD: MRAMAKRISHNA 2016/06/28<br>APPR: MRAMAKRISHNA 2016/06/28 | QUALITY SYMBOLS   | GENERAL TOLERANCES (UNLESS SPECIFIED)   | DIMENSION STYLE  | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |       |       |          |       |       |          |       |       |         |       |       |         |      |  |         |     |        |  |
|--|---|---|------------------|-------|--------------|------------------------|-------|-------|----------|-------|-------|----------|-------|-------|---------|-------|-------|---------|------|--|---------|-----|--------|--|
|  | $\nabla=0$<br>$\nabla=0$  | <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>± 0.2</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>ANGULAR</td> <td colspan="2">± 3°</td> </tr> </table> |                  | mm    | INCH         | 4 PLACES               | ± --- | ± --- | 3 PLACES | ± --- | ± --- | 2 PLACES | ± 0.2 | ± --- | 1 PLACE | ± --- | ± --- | ANGULAR | ± 3° |  | MM ONLY | NTS | METRIC |  |
|  |   | mm  | INCH             |       |              |                        |       |       |          |       |       |          |       |       |         |       |       |         |      |  |         |     |        |  |
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| ANGULAR  | ± 3°  |   |                  |       |              |                        |       |       |          |       |       |          |       |       |         |       |       |         |      |  |         |     |        |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS   | DRAWN BY: MRAMAKRISHNA 2015/11/04<br>CHECKED BY: MRAMAKRISHNA 2015/11/04<br>APPROVED BY: MRAMAKRISHNA 2015/12/08<br>MATERIAL NO. SEE TABLE<br>SIZE: $\frac{A}{3}$ | TITLE: CUSTOM HEADER<br>2.54MM PITCH DUAL ROW<br>HEADER, DUAL WAFER SMT<br>MOLEX INCORPORATED<br>DOCUMENT NO. SD-87939-0001   | SHEET NO. 4 OF 4 |       |              |                        |       |       |          |       |       |          |       |       |         |       |       |         |      |  |         |     |        |  |
| 4  | REV   | 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



| CKT SIZE | DIMENSION |       |       |
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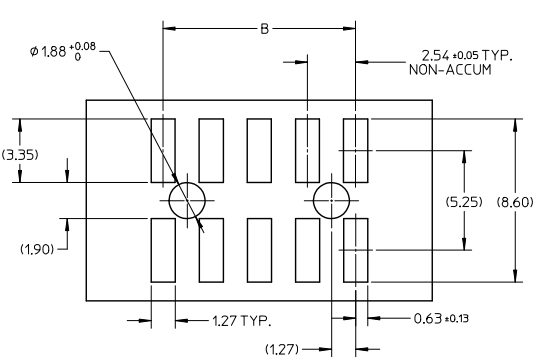
CONNECTOR WITHOUT PEG

CONNECTOR WITH PEG

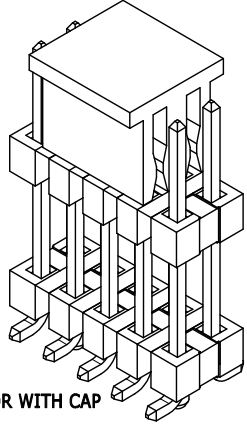
| UPDATE DWG<br>IEC NO. S2009-0754<br>2009/04/14<br>DRAWN: WENGHONG<br>2009/04/15<br>CHKD: ATSEE<br>2009/04/15<br>APPR: HLONG<br>2009/04/15 | QUALITY SYMBOLS<br>▽=0<br>▽=0             | GENERAL TOLERANCES (UNLESS SPECIFIED)<br><table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </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>± 0.2</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td colspan="3">ANGULAR ± 3°</td> </tr> </tbody> </table> |                           | mm   | INCH   | 4 PLACES           | ± --- | ± --- | 3 PLACES | ± --- | ± --- | 2 PLACES | ± 0.2 | ± --- | 1 PLACE | ± --- | ± --- | ANGULAR ± 3° |  |  | DIMENSION STYLE<br>MM ONLY | SCALE<br>NTS | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |
|---|---|---|---------------------------|--|--|--------------------|-------|-------|----------|-------|-------|----------|-------|-------|---------|-------|-------|--------------|--|--|----------------------------|--------------|------------------------|------------------------|
|   |   | mm  | INCH                      |  |  |                    |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
|   | 4 PLACES                                  | ± ---   | ± ---                     |  |  |                    |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
|   | 3 PLACES                                  | ± ---   | ± ---                     |  |  |                    |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
| 2 PLACES  | ± 0.2                                     | ± ---   |                           |  |  |                    |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
| 1 PLACE   | ± ---                                     | ± ---   |                           |  |  |                    |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
| ANGULAR ± 3°  |   |   |                           |  |  |                    |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
| DRAWN BY<br>SKL I M01<br>DATE<br>2006/06/29   | CHECKED BY<br>PATEY<br>DATE<br>2006/07/07 | APPROVED BY<br>PATEY<br>DATE<br>2006/07/07  | MATERIAL NO.<br>SEE TABLE | DOCUMENT NO.<br>SD-87939-017   | TITLE<br>CUSTOM HEADER<br>CGRID, DUAL ROW HDR, DUAL<br>BODY, SMT W/PEGS, VERT. | MOLEX INCORPORATED |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
| REV<br>A7   | DESCRIPTION                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS  | SIZE<br>A3                | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | SHEET NO.<br>1 OF 4  | MOLEX INCORPORATED |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |

9 8 7 6 5 4 3 2 1

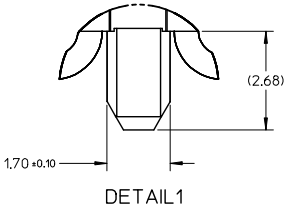
10 9 8 7 6 5 4 3 2 1



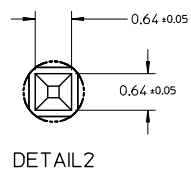
**RECOMMENDED PCB LAYOUT: SOLDER SIDE**



**ISO VIEW  
CONNECTOR WITH CAP**



**DETAIL 1**



**DETAIL 2**

**NOTES**

1. MATERIAL:
  - HSG: LCP, GLASS-FILLED, UL94V-0, COLOR: BLACK
  - CAP: NYLON, GLASS-FILLED, UL94V-0, COLOR: BLACK
  - PIN: 0.64MM SQ, COPPER ALLOY
2. PLATING TYPE:
  - (1) GOLD FLASH OVER  
1.25µm MIN. NICKEL OVERALL
  - (2) 0.05µm MIN. GOLD PLATE ON CONTACT AND  
2.50µm MIN. TIN ON SOLDER TAIL OVER  
1.25µm MIN. NICKEL OVERALL.
  - (3) 0.38µm MIN. GOLD PLATE ON CONTACT AND  
2.00µm MIN. TIN ON SOLDER TAIL OVER  
1.25µm MIN. NICKEL OVERALL.
  - (4) 0.75µm MIN. GOLD PLATE ON CONTACT AND  
2.00µm MIN. TIN ON SOLDER TAIL OVER  
1.25µm MIN. NICKEL OVERALL.
  - (5) 2.50µm MIN. TIN OVERALL  
1.25µm MIN. NICKEL OVERALL
3. PACKAGING TYPE: SEE TABLE
4. PCB THICKNESS 1.60 +/- 0.10mm
5. PRODUCT SPECIFICATION: PS-87920-019
6. WAFER TO BE FLAT WITHIN 0.003 mm/mm
7. BEND DEPRESSION IS ACCEPTED SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY OF TAIL
8. COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A FLAT SURFACE
9. CAP LOCATION IS CENTERED ALONG THE MATING ENDS AS SHOWN. TOP SURFACE OF CAP TO BE FLAT FOR THE PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE
10. IRREGULAR CIRCUIT CUTOFF WITHIN BREAKAWAY SECTION IS PERMISSIBLE. CUTTING OR CHIPPING OF THE MAIN BODY IS NOT ACCEPTABLE
11. PARTS ARE NOT STACKABLE ON 2.54 CENTER
12. THE ABOVE CKT 10 IS FOR ILLUSTRATION PURPOSE ONLY
13. TUBE LENGTH IS 560MM PER STANDARD
14. PACKAGING SPECIFICATION: PLS REFER TO SHEET 3

| UPDATE DWG<br>EC NO. S2009-0754<br>2009/04/14<br>DRAWN: MCHONG<br>2009/04/15<br>CHK: DATSEE<br>2009/04/15<br>APPR: MLONG<br>2009/04/15<br>REV A7 | QUALITY SYMBOLS<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>± 0.2</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td colspan="3">ANGULAR ± 3°</td> </tr> </tbody> </table> |                           | mm                           | INCH   | 4 PLACES            | ± --- | ± --- | 3 PLACES | ± --- | ± --- | 2 PLACES | ± 0.2 | ± --- | 1 PLACE | ± --- | ± --- | ANGULAR ± 3° |  |  | DIMENSION STYLE<br>MM ONLY | SCALE<br>NTS | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |
|--|---|---|---------------------------|------------------------------|--|---------------------|-------|-------|----------|-------|-------|----------|-------|-------|---------|-------|-------|--------------|--|--|----------------------------|--------------|------------------------|------------------------|
|  |   | mm  | INCH                      |                              |  |                     |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
|  | 4 PLACES                                  | ± ---   | ± ---                     |                              |  |                     |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
|  | 3 PLACES                                  | ± ---   | ± ---                     |                              |  |                     |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
| 2 PLACES   | ± 0.2                                     | ± ---   |                           |                              |  |                     |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
| 1 PLACE  | ± ---                                     | ± ---   |                           |                              |  |                     |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
| ANGULAR ± 3°   |   |   |                           |                              |  |                     |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
| DRAWN BY<br>SKLIM01<br>DATE<br>2006/06/29  | CHECKED BY<br>PATEY<br>DATE<br>2006/07/07 | APPROVED BY<br>PATEY<br>DATE<br>2006/07/07  | MATERIAL NO.<br>SEE TABLE | DOCUMENT NO.<br>SD-87939-017 | TITLE<br>CUSTOM HEADER<br>CGRID, DUAL ROW HDR, DUAL<br>BODY, SMT W/PEGS, VERT. | SHEET NO.<br>2 OF 4 |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS   |   |   |                           |                              |  |                     |       |       |          |       |       |          |       |       |         |       |       |              |  |  |                            |              |                        |                        |
| 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

PACKAGING SPECIFICATION OVERVIEW

| ITEM | PACKAGING TYPE | PACKAGING SPECIFICATION | RECOMMENDED LOADED ASSY HEIGHT | PART PACKED IN PACKAGING ORIENTATION (FOR REF. USE ONLY) | ITEM | PACKAGING TYPE | PACKAGING SPECIFICATION           | RECOMMENDED LOADED ASSY HEIGHT | PART PACKED IN PACKAGING ORIENTATION (FOR REF. USE ONLY) |
|------|----------------|-------------------------|--------------------------------|--|------|----------------|-----------------------------------|--------------------------------|--|
| 1    | TRAY           | PK-89990-489            | DIM G/F= 60.0MM MAX.           |  | 4    | TUBE           | PK-89990-507                      | DIM G/F= <16.0MM               |  |
| 2    | BULK           | PK-89990-491            | -                              |  | 5    | TUBE           | PK-89990-478                      | DIM G/F= 10.7MM MAX.           |  |
| 3    | TUBE           | PK-89990-508            | DIM G/F= 16.1-23.0MM           |  | 6    | TAPE & REEL    | PK-89990-486 (REEL Ø: 330.0 MAX.) | DIM G/F= 15.0MM MAX.           |  |

|  |                               |  |                      |   |                     |               |                        |                        |   |                     |
|--|-------------------------------|--|----------------------|---|---------------------|---------------|------------------------|------------------------|---|---------------------|
| UPDATE DWG<br>EC NO: S2009-0754<br>DRAWN: WCHONG<br>CHKD: ATSEE<br>APPR: MLONG<br>2009/04/14<br>2009/04/15<br>2009/04/15 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |                      | DIMENSION STYLE<br>MM ONLY  |                     | SCALE<br>NTS  | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |   |                     |
|  |                               | 4 PLACES ± --- ± ---                                       | 3 PLACES ± --- ± --- | 2 PLACES ± 0.2 ± ---  | 1 PLACE ± --- ± --- | ANGULAR ± 3 ° | DRAWN BY<br>SKLIM01    | DATE<br>2006/06/29     | TITLE<br>CUSTOM HEADER<br>CGRID,DUAL ROW HDR, DUAL<br>BODY, SMT W/PEGS, VERT. |                     |
|  |                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                      | SEE TABLE   |                     | MATERIAL NO.  | APPROVED BY<br>PATEY   | DATE<br>2006/07/07     | MOLEX INCORPORATED  | SHEET NO.<br>3 OF 4 |
|  |                               | SIZE<br>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

PART NUMBER IN PACKAGING OPTION

DIMENSION

| TRAY PACKED WITH CAP | TRAY PACKED WITHOUT CAP | TUBE WITH CAP | TUBE WITHOUT CAP | TAPE & REEL WITH CAP | BULK PACKED WITH CAP | BULK PACKED WITHOUT CAP | CKT SIZE | PEG | PLATE OPT. | PK SPEC. | G | F     | MATING END |       | E    | J    |
|----------------------|-------------------------|---------------|------------------|----------------------|----------------------|-------------------------|----------|-----|------------|----------|---|-------|------------|-------|------|------|
|                      |                         |               |                  |                      |                      |                         |          |     |            |          |   |       | M          | H     |      |      |
| -                    | -                       | -             | 87939-0800       | -                    | -                    | -                       | 8        | Y   | 5          | 3        | - | 23.10 | 5.24       | 17.86 | 1.27 | 2.28 |
| -                    | -                       | -             | 87939-0002       | -                    | -                    | -                       | 12       | N   | 3          | 4        | - | 14.40 | 5.90       | 8.50  | 1.27 | 2.22 |
| -                    | -                       | -             | 87939-2000       | -                    | -                    | -                       | 20       | Y   | 5          | 3        | - | 20.00 | 4.65       | 15.35 | 1.27 | 2.28 |
| -                    | 87939-0034              | -             | -                | -                    | -                    | -                       | 34       | Y   | 5          | 1        | - | 17.89 | 2.79       | 15.10 | 1.27 | 2.28 |
| -                    | -                       | -             | 87939-0003       | -                    | -                    | -                       | 40       | N   | 3          | 4        | - | 14.40 | 5.90       | 8.50  | 1.27 | 2.22 |
| -                    | 87939-2801              | -             | -                | -                    | -                    | -                       | 28       | Y   | 5          | 1        | - | 16.89 | 3.68       | 13.21 | 1.27 | 2.28 |
| -                    | 87939-2802              | -             | -                | -                    | -                    | -                       | 28       | N   | 5          | 1        | - | 16.89 | 3.68       | 13.21 | 1.27 | 2.28 |
| -                    | 87939-4001              | -             | -                | -                    | -                    | -                       | 40       | Y   | 4          | 1        | - | 14.40 | 8.00       | 6.40  | 1.27 | 2.28 |

|  |                               |                                       |                      |                            |                    |   |                              |                           |  |
|--|-------------------------------|---------------------------------------|----------------------|----------------------------|--------------------|---|------------------------------|---------------------------|--|
| UPDATE DWG<br>EC NO: S2009-0754<br>DRAWN: WCHONG<br>CHKD: ATSEE<br>APPR: HLONG<br>2009/04/14<br>2009/04/15<br>2009/04/15 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |                      | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>NTS  | DESIGN UNITS<br>METRIC       | THIRD ANGLE<br>PROJECTION |  |
|  |                               | 4 PLACES ± --- ± ---                  | 3 PLACES ± --- ± --- | DRAWN BY<br>SKLIM01        | DATE<br>2006/06/29 | TITLE<br>CUSTOM HEADER<br>CGRID,DUAL ROW HDR, DUAL<br>BODY, SMT W/PEGS, VERT. |                              |                           |  |
|  |                               | 2 PLACES ± 0.2 ± ---                  | 1 PLACE ± --- ± ---  | CHECKED BY<br>PATEY        | DATE<br>2006/07/07 | MOLEX INCORPORATED  |                              |                           |  |
|  |                               | ANGULAR ± 3 °                         |                      | APPROVED BY<br>PATEY       | DATE<br>2006/07/07 | MATERIAL NO.<br>SEE TABLE   | DOCUMENT NO.<br>SD-87939-017 | SHEET NO.<br>4 OF 4       |  |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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9 8 7 6 5 4 3 2 1