

F

E

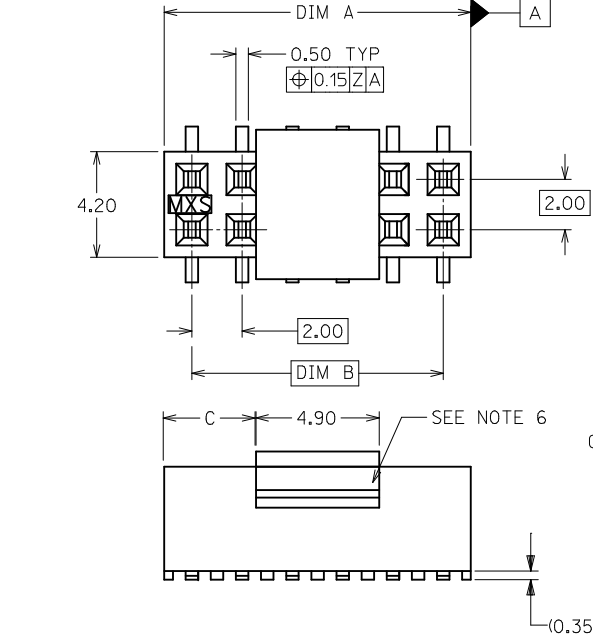
D

C

B

A

10 9 8 7 6 5 4 3 2 1



PART NO. LEGEND  
FOR TUBE PACKAGING ONLY

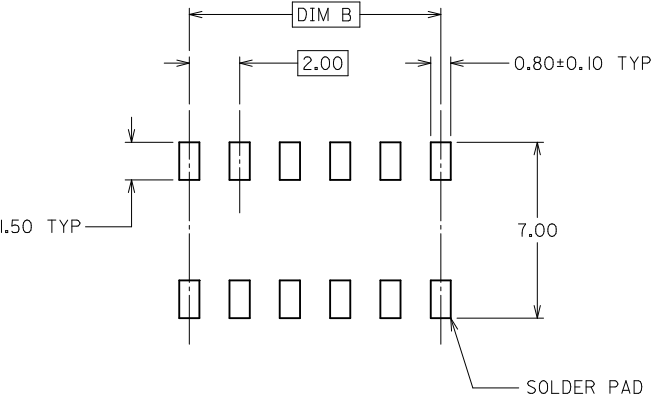
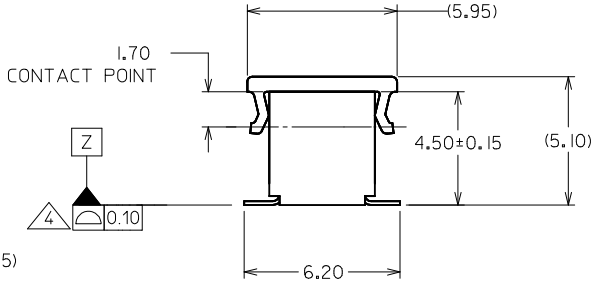
87381 - \* \* \* \*

CIRCUIT SIZE

PLATING (SEE NOTE 1)

3  
4  
5

6 COVER  
7 NO COVER



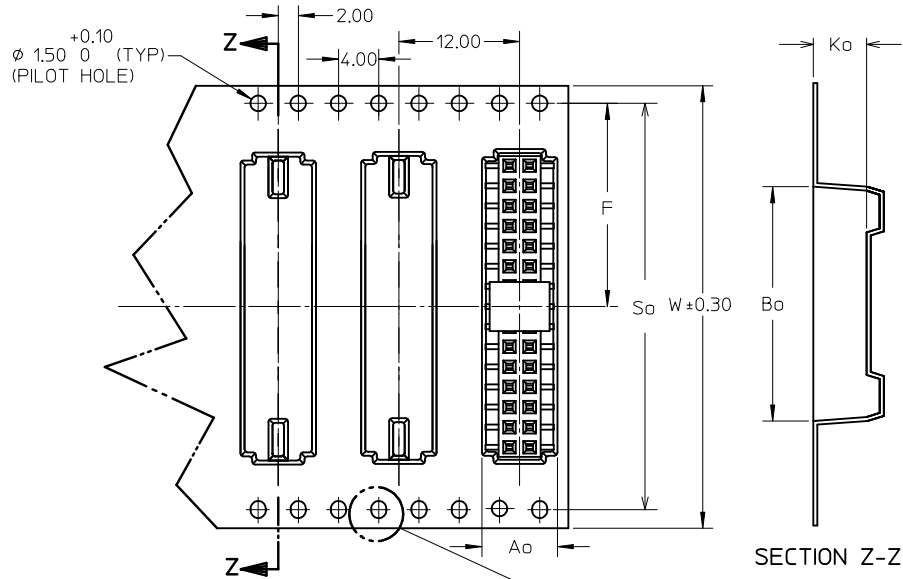
RECOMMENDED PCB LAYOUT

| PART NUMBER | CKT. SIZE | DIM A | DIM B | DIM C |
|-------------|-----------|-------|-------|-------|
| 87381-06**  | 6         | 6.00  | 4.00  | 0.55  |
| 87381-08**  | 8         | 8.00  | 6.00  | 1.55  |
| 87381-10**  | 10        | 10.00 | 8.00  | 2.55  |
| 87381-12**  | 12        | 12.00 | 10.00 | 3.55  |
| 87381-14**  | 14        | 14.00 | 12.00 | 4.55  |
| 87381-16**  | 16        | 16.00 | 14.00 | 5.55  |
| 87381-18**  | 18        | 18.00 | 16.00 | 6.55  |
| 87381-20**  | 20        | 20.00 | 18.00 | 7.55  |
| 87381-22**  | 22        | 22.00 | 20.00 | 8.55  |
| 87381-24**  | 24        | 24.00 | 22.00 | 9.55  |
| 87381-26**  | 26        | 26.00 | 24.00 | 10.55 |
| 87381-28**  | 28        | 28.00 | 26.00 | 11.55 |
| 87381-30**  | 30        | 30.00 | 28.00 | 12.55 |
| 87381-32**  | 32        | 32.00 | 30.00 | 13.55 |
| 87381-34**  | 34        | 34.00 | 32.00 | 14.55 |
| 87381-36**  | 36        | 36.00 | 34.00 | 15.55 |
| 87381-38**  | 38        | 38.00 | 36.00 | 16.55 |
| 87381-40**  | 40        | 40.00 | 38.00 | 17.55 |
| 87381-42**  | 42        | 42.00 | 40.00 | 18.55 |
| 87381-44**  | 44        | 44.00 | 42.00 | 19.55 |
| 87381-46**  | 46        | 46.00 | 44.00 | 20.55 |
| 87381-48**  | 48        | 48.00 | 46.00 | 21.55 |
| 87381-50**  | 50        | 50.00 | 48.00 | 22.55 |

- NOTES:
- PLATING FINISH:  
3 - 0.76um MIN. GOLD IN CONTACT AREA 1.27um MIN. TIN  
IN SOLDER TAIL AREA BOTH OVER 1.27um MIN. NICKEL OVERALL  
4 - 0.38um MIN. GOLD IN CONTACT AREA 1.27um MIN. TIN  
IN SOLDER TAIL AREA BOTH OVER 1.27um MIN. NICKEL OVERALL  
5 - 0.05um MIN. GOLD FLASH IN CONTACT AREA 1.90um MIN. TIN  
IN SOLDER TAIL AREA BOTH OVER 1.27um MIN. NICKEL OVERALL
  - 12 CKT SIZE SHOWN FOR ASSY ILLUSTRATION ONLY. (SEE CHART FOR ALL PART SIZES), 6 CKT & 30 CKT ILLUSTRATED FOR TAPE/REEL VERSION ON SHT 2.
  - PRODUCT SPECIFICATION PS-87380 APPLIES.
  - COPLANARITY OF SOLDER TAILS ARE TO BE MEASURED BY RESTING THE PART ON A FLAT GAUGE SURFACE ↑+0.05 UPWARDS AND ↓-0.05 DOWNWARDS.
  - TUBE PACKAGING STANDARD.
  - COVER IS OPTIONAL, SEE LEGEND.
  - PARTS SHALL BE PACKED IN MOISTURE BARRIER BAG.
  - REFER SHT 3 FOR P/N: 87381-6000 T&R ILLUSTRATION.

|                                                                               |            |            |             |                 |                                                            |        |       |                 |                                                                                                                               |              |                                                                                                          |                                                                                                              |                |
|-------------------------------------------------------------------------------|------------|------------|-------------|-----------------|------------------------------------------------------------|--------|-------|-----------------|-------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------|
| REVISE NOTE 4.<br>EC NO: S2012-0026<br>DRWN:SKANG<br>CHKD:ATSEE<br>APPR:MLONG | 2011/07/29 | 2011/08/03 | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        |       | DIMENSION STYLE |                                                                                                                               | SCALE        | DESIGN UNITS                                                                                             |  THIRD ANGLE PROJECTION |                |
|                                                                               | 2011/07/29 | 2011/08/03 |             |                 |                                                            |        |       | MM ONLY         |                                                                                                                               | NTS          | METRIC                                                                                                   |                                                                                                              |                |
|                                                                               |            |            |             |                 |                                                            | mm     | INCH  | DRAWN BY        |                                                                                                                               | DATE         | TITLE                                                                                                    |                                                                                                              |                |
|                                                                               |            |            |             |                 | 4 PLACES                                                   | ± ---  | ± --- | JAMES           |                                                                                                                               | 1998/01/08   |                                                                                                          |                                                                                                              |                |
|                                                                               |            |            |             |                 | 3 PLACES                                                   | ± ---  | ± --- | CHECKED BY      |                                                                                                                               | DATE         |                                                                                                          |                                                                                                              |                |
|                                                                               |            |            |             |                 | 2 PLACES                                                   | ± 0.20 | ± --- | LCHANG          |                                                                                                                               | 1999/04/23   |                                                                                                          |                                                                                                              |                |
|                                                                               |            |            |             |                 | 1 PLACE                                                    | ± ---  | ± --- | APPROVED BY     |                                                                                                                               | DATE         |                                                                                                          |                                                                                                              |                |
|                                                                               |            |            |             |                 | ANGULAR ± 3 °                                              |        |       | SQUEK           |                                                                                                                               | 1999/04/26   |  MOLEX INCORPORATED |                                                                                                              |                |
|                                                                               |            |            |             |                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |       | MATERIAL NO.    |                                                                                                                               | DOCUMENT NO. |                                                                                                          |                                                                                                              | SHEET NO.      |
|                                                                               |            |            |             |                 |                                                            |        |       |                 |                                                                                                                               |              | SEE TABLE                                                                                                |                                                                                                              | SD-87381-***6* |
| E11                                                                           |            | REV        |             |                 |                                                            |        |       | SIZE<br>A3      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                                                                                                          |                                                                                                              |                |

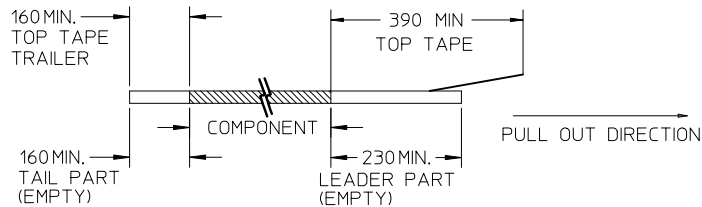
9 8 7 6 5 4 3 2 1



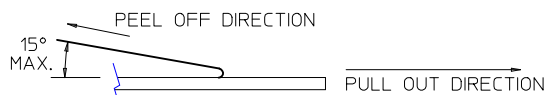
30 CKT FOR ILLUSTRATION ONLY  
TAPE & REEL TYPE 'B'

NOTES:

1. LEADER AND TRAILER TAPE

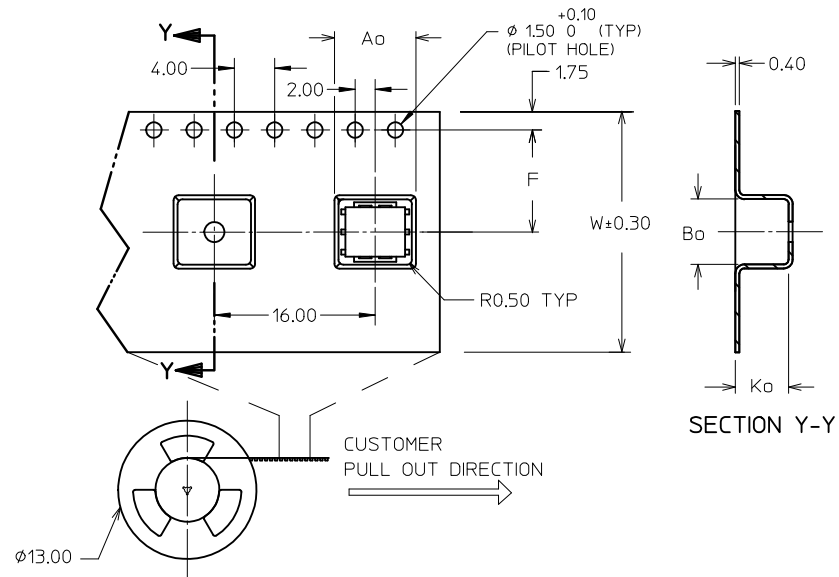
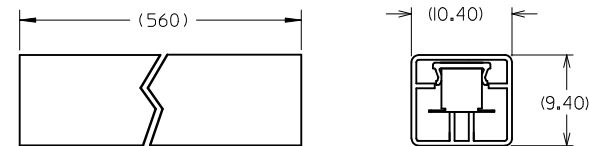


2. PEELING OFF FORCE OF THE TOP TAPE: 20-80gf.  
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



3. PACKAGING STANDARD IS AS PER EIA-481.  
4. TAPE & REEL QUANTITY = SEE TABLE

CONNECTOR ORIENTATION  
IN TUBE



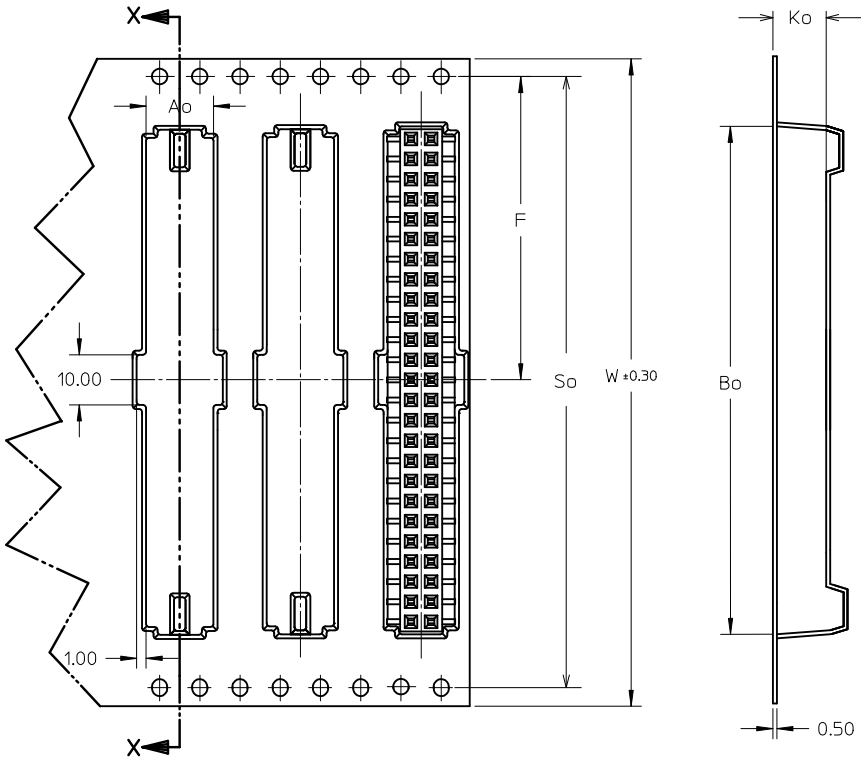
6 CKT FOR ILLUSTRATION ONLY  
TAPE & REEL TYPE 'A'

|                                                                                                                         |                    |                                                                                                     |                                                            |        |                                                                                                                               |                   |                    |                        |                                                             |                                                      |
|-------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------|------------------------|-------------------------------------------------------------|------------------------------------------------------|
| REVISE NOTE 4.<br>EC NO: S2012-0026<br>2011/07/29<br>DRWN:SKANG<br>CHKD:ATSEE<br>2011/08/03<br>APPR:MLONG<br>2011/08/03 | DESCRIPTION<br>REV | QUALITY SYMBOLS<br><div>F<sub>A</sub>=0</div> <div>F<sub>G</sub>=0</div> <div>F<sub>P</sub>=0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        | DIMENSION STYLE<br>MM ONLY                                                                                                    |                   | SCALE<br>NTS       | DESIGN UNITS<br>METRIC | <div><div></div><div></div></div> THIRD ANGLE<br>PROJECTION | TITLE<br>MGRID, TOP ENTRY RECEPT.<br>4.50MM HT., SMT |
|                                                                                                                         |                    |                                                                                                     |                                                            | mm     | INCH                                                                                                                          | DRAWN BY<br>JAMES | DATE<br>1998/01/08 |                        |                                                             |                                                      |
|                                                                                                                         |                    |                                                                                                     | 4 PLACES                                                   | ± ---  | ± ---                                                                                                                         | CHECKED BY        | DATE               |                        |                                                             |                                                      |
|                                                                                                                         |                    |                                                                                                     | 3 PLACES                                                   | ± ---  | ± ---                                                                                                                         | LCHANG            | 1999/04/23         |                        |                                                             |                                                      |
|                                                                                                                         |                    |                                                                                                     | 2 PLACES                                                   | ± 0.20 | ± ---                                                                                                                         | APPROVED BY       | DATE               |                        |                                                             |                                                      |
|                                                                                                                         |                    |                                                                                                     | 1 PLACE                                                    | ± ---  | ± ---                                                                                                                         | SQUEK             | 1999/04/26         |                        |                                                             |                                                      |
|                                                                                                                         |                    |                                                                                                     | ANGULAR ± 3 °                                              |        | MATERIAL NO.                                                                                                                  | DOCUMENT NO.      | SHEET NO.          |                        |                                                             |                                                      |
|                                                                                                                         |                    |                                                                                                     | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SEE TABLE                                                                                                                     |                   | SD-87381-***6*     | 2 OF 4                 |                                                             |                                                      |
|                                                                                                                         |                    |                                                                                                     |                                                            |        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                   |                    |                        |                                                             |                                                      |
|                                                                                                                         |                    |                                                                                                     |                                                            |        |                                                                                                                               |                   |                    |                        |                                                             |                                                      |

[illegible]

| CKT SIZE | PART NO. WITHOUT CAP IN TUBE | PART NO. WITHOUT CAP IN TAPE / REEL                                                            | W  | So    | Ao   | F     | Bo    | Ko   | T&R TYPE (SHT 2) | T&R QTY PER REEL |
|----------|------------------------------|------------------------------------------------------------------------------------------------|----|-------|------|-------|-------|------|------------------|------------------|
| 50       | 87381-5074                   | 87381-6000  | 72 | 68.40 | 6.80 | 34.20 | 50.50 | 8.00 | B                | 500              |

 ILLUSTRATION FOR P/N: 87381-6000  
50 CKT IN T&R W/O CAP



SECTION X-X

|                                                                                      |                    |                                                                                                     |                                       |  |                           |                            |                                                      |                     |                        |                                                                                                              |
|--------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------|--|---------------------------|----------------------------|------------------------------------------------------|---------------------|------------------------|--------------------------------------------------------------------------------------------------------------|
| REVISE NOTE 4.<br>EC NO: S2012-0026<br>DRWN:SKANG<br>CHKD:ATSEE<br>APPR:MLONG<br>F11 | DESCRIPTION<br>REV | QUALITY SYMBOLS<br><div>F<sub>A</sub>=0</div> <div>F<sub>G</sub>=0</div> <div>F<sub>P</sub>=0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED) |  |                           | DIMENSION STYLE<br>MM ONLY |                                                      | SCALE<br>NTS        | DESIGN UNITS<br>METRIC |  THIRD ANGLE PROJECTION |
|                                                                                      |                    |                                                                                                     |                                       |  | DRAWN BY<br>JAMES         | DATE<br>1998/01/08         | TITLE<br>MGRID, TOP ENTRY RECEPT.<br>4.50MM HT., SMT |                     |                        |                                                                                                              |
|                                                                                      |                    |                                                                                                     |                                       |  | CHECKED BY<br>LCHANG      | DATE<br>1999/04/23         |                                                      |                     |                        |                                                                                                              |
|                                                                                      |                    |                                                                                                     |                                       |  | APPROVED BY<br>SQUEK      | DATE<br>1999/04/26         |                                                      |                     |                        |                                                                                                              |
|                                                                                      |                    |                                                                                                     |                                       |  | MATERIAL NO.<br>SEE TABLE |                            | DOCUMENT NO.<br>SD-87381-**6*                        | SHEET NO.<br>4 OF 4 |                        |                                                                                                              |
|                                                                                      |                    |                                                                                                     |                                       |  |                           |                            |                                                      |                     |                        |                                                                                                              |
|                                                                                      |                    |                                                                                                     |                                       |  |                           |                            |                                                      |                     |                        |                                                                                                              |
|                                                                                      |                    |                                                                                                     |                                       |  |                           |                            |                                                      |                     |                        |                                                                                                              |
|                                                                                      |                    |                                                                                                     |                                       |  |                           |                            |                                                      |                     |                        |                                                                                                              |
|                                                                                      |                    |                                                                                                     |                                       |  |                           |                            |                                                      |                     |                        |                                                                                                              |
|                                                                                      |                    |                                                                                                     |                                       |  |                           |                            |                                                      |                     |                        |                                                                                                              |