

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0873810663](#)  
**Status:** **Active**  
**Description:** 2.00mm (.079") Pitch Milli-Grid™ Receptacle, Surface Mount, Top Entry, 0.76µm (30µ") Gold (Au) Plating, with Cap, without Locating Pegs, 6 Circuits, Lead-free

**Documents:**

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-87380-002 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>     |

**Agency Certification**

|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                             |                       |
|-----------------------------|-----------------------|
| Product Family              | PCB Receptacles       |
| Series                      | <a href="#">87381</a> |
| Application                 | Board-to-Board        |
| Comments                    | With Cap              |
| Product Literature Order No | 987650-1991           |
| Product Name                | Milli-Grid™           |

**Physical**

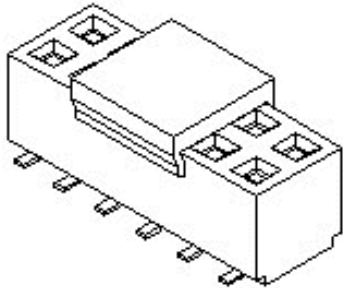
|                                |                                |
|--------------------------------|--------------------------------|
| Circuits (Loaded)              | 6                              |
| Circuits (maximum)             | 6                              |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 25                             |
| Flammability                   | 94V-0                          |
| Glow-Wire Compliant            | No                             |
| Lock to Mating Part            | None                           |
| Material - Metal               | Phosphor Bronze                |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin-Lead                       |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Rows                 | 2                              |
| Orientation                    | Vertical                       |
| PCB Locator                    | No                             |
| PCB Retention                  | None                           |
| Packaging Type                 | Tube                           |
| Pitch - Mating Interface (in)  | 0.079 In                       |
| Pitch - Mating Interface (mm)  | 2.00 mm                        |
| Pitch - Term. Interface (in)   | 0.079 In                       |
| Pitch - Term. Interface (mm)   | 2.00 mm                        |
| Plating min: Mating (µin)      | 30                             |
| Plating min: Mating (µm)       | 0.76                           |
| Plating min: Termination (µin) | 50                             |
| Plating min: Termination (µm)  | 1.27                           |
| Polarized to PCB               | No                             |
| Surface Mount Compatible (SMC) | N/A                            |
| Temperature Range - Operating  | -55°C to +105°C                |
| Termination Interface: Style   | Surface Mount                  |

**Electrical**

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 1.9A |
| Voltage - Maximum             | 125V |

**Solder Process Data**

|                              |                           |
|------------------------------|---------------------------|
| Lead-free Process Capability | Reflow Capable (SMT only) |
|------------------------------|---------------------------|



Series

image - Reference only

**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC**  
Not Reviewed  
**Halogen-Free  
Status**

**China RoHS**



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environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of  
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any  
non-product compliance questions.

**Search Parts in this Series**

[87381Series](#)

**Mates With**

[87758](#) Vertical, Through Hole, Stackable  
PCB Header, [87759](#) Vertical, Surface  
Mount, Stackable PCB Header, [87760](#)  
Right Angle, Through Hole, Stackable PCB  
Header, [87831](#) Vertical, Through Hole PCB  
Header, [87832](#) Vertical, Surface Mount PCB

|                                    |               |
|------------------------------------|---------------|
| Process Temperature max. C         | 245           |
| <b>Material Info</b>               |               |
| <b>Reference - Drawing Numbers</b> |               |
| Product Specification              | PS-87380-002  |
| Sales Drawing                      | SD-87381-**6* |

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F

E

D

C

B

A

10

9

8

7

6

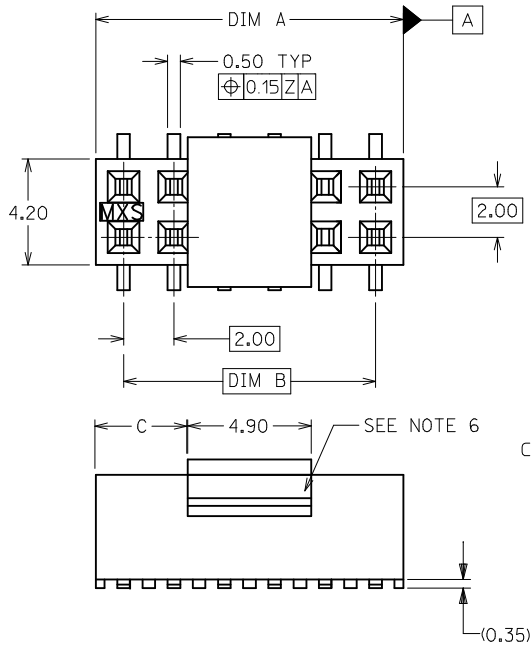
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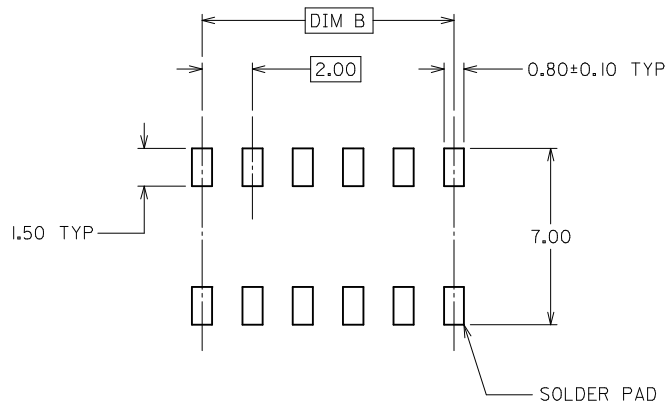
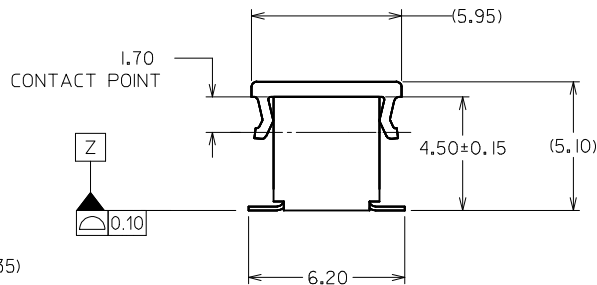
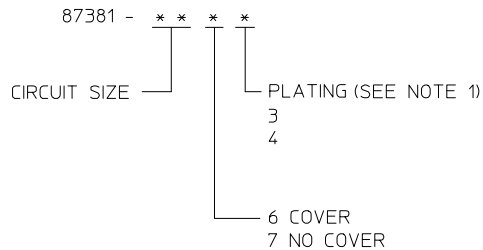
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2

1



PART NO. LEGEND  
FOR TUBE PACKAGING ONLY



RECOMMENDED PCB LAYOUT

| PART NUMBER<br>(SEE NOTE 5) | CKT.<br>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
- 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.
- 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.

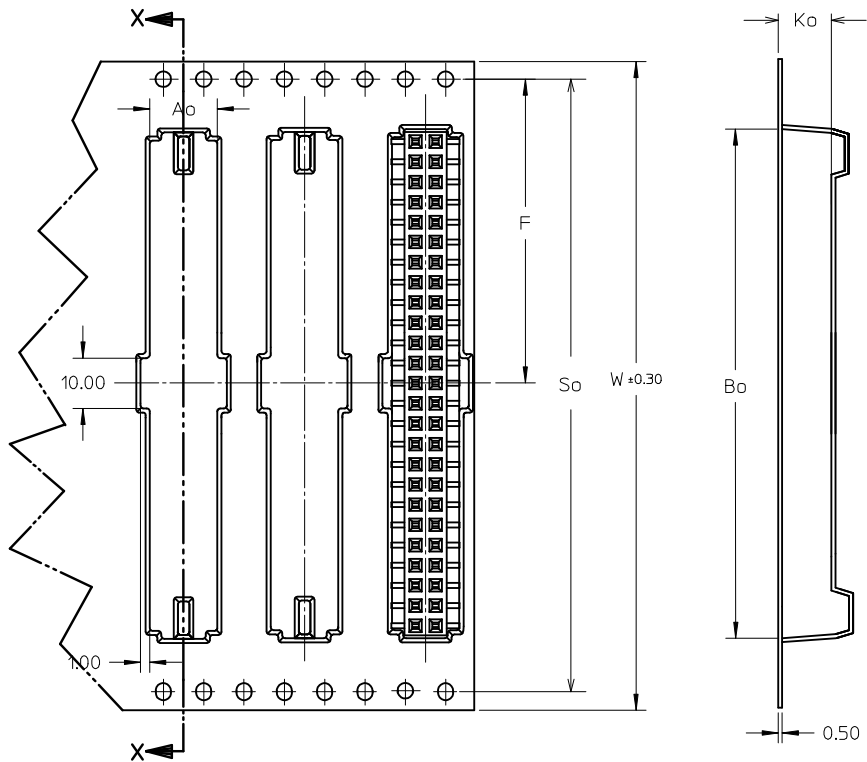
|                                                                                              |  |              |  |                                                                                                                                  |             |                |                                          |                    |                            |        |                                                      |                        |                           |  |
|----------------------------------------------------------------------------------------------|--|--------------|--|----------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|------------------------------------------|--------------------|----------------------------|--------|------------------------------------------------------|------------------------|---------------------------|--|
| ADD P/N: 87381-3200<br>EC NO: S2009-0725<br>DRWN:SKANG<br>CHKD:ATSEE<br>APPR:MLONG<br>REV E8 |  |              |  | QUALITY SYMBOLS<br><br>▽=0<br>◇=0                                                                                                | DESCRIPTION | REV            | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |                    | DIMENSION STYLE<br>MM ONLY |        | SCALE<br>NTS                                         | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |
| mm                                                                                           |  | INCH         |  |                                                                                                                                  |             |                | DRAWN BY<br>JAMES                        |                    | DATE<br>1998/01/08         |        | TITLE<br>MGRID, TOP ENTRY RECEPT.<br>4.50MM HT., SMT |                        |                           |  |
| 4 PLACES ± ---                                                                               |  | ± ---        |  |                                                                                                                                  |             |                | CHECKED BY                               |                    | DATE                       |        |                                                      |                        |                           |  |
| 3 PLACES ± ---                                                                               |  | ± ---        |  |                                                                                                                                  |             |                | LCHANG                                   |                    | 1999/04/23                 |        |                                                      |                        |                           |  |
| 2 PLACES ± 0.20                                                                              |  | ± ---        |  | APPROVED BY                                                                                                                      |             | DATE           |                                          | MOLEX INCORPORATED |                            |        |                                                      |                        |                           |  |
| 1 PLACE ± ---                                                                                |  | ± ---        |  | SQUEK                                                                                                                            |             | 1999/04/26     |                                          |                    |                            |        |                                                      |                        |                           |  |
| ANGULAR ± 3 °                                                                                |  | MATERIAL NO. |  | DOCUMENT NO.                                                                                                                     |             | SD-87381-***6* |                                          | SHEET NO.          |                            | 1 OF 4 |                                                      |                        |                           |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                   |  | SEE TABLE    |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |             |                |                                          |                    |                            |        |                                                      |                        |                           |  |
| SIZE<br>A3                                                                                   |  |              |  |                                                                                                                                  |             |                |                                          |                    |                            |        |                                                      |                        |                           |  |



|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|---|----|---|---|---|---|---|-------------|---------------------------------|----------------------------------------|----|-------|------|-------|-------|------|------------------------|------------------------|---|
|   | 10 | 9 | 8 | 7 | 6 | 5 | 4           |                                 | 3                                      |    | 2     |      | 1     |       |      |                        |                        |   |
| F |    |   |   |   |   |   | CKT<br>SIZE | PART NO.<br>WITH CAP<br>IN TUBE | PART NO.<br>WITH CAP IN<br>TAPE / REEL | W  | So    | Ao   | F     | Bo    | Ko   | T&R<br>TYPE<br>(SHT 2) | T&R<br>QTY<br>PER REEL | F |
|   |    |   |   |   |   |   | 6           | 87381-0664                      | 87381-9002                             | 24 | -     | 7.00 | 11.50 | 6.50  | 5.30 | A                      | 500                    |   |
|   |    |   |   |   |   |   | 8           | 87381-0864                      | 87381-9003                             | 24 | -     | 7.00 | 11.50 | 8.50  | 5.30 | A                      | 600                    |   |
|   |    |   |   |   |   |   | 10          | 87381-1064                      | 87381-9005                             | 24 | -     | 7.00 | 11.50 | 10.50 | 5.30 | A                      | 680                    |   |
|   |    |   |   |   |   |   | 14          | 87381-1464                      | 87381-9006                             | 32 | 28.40 | 7.20 | 14.20 | 14.50 | 5.30 | B                      | 750                    |   |
|   |    |   |   |   |   |   | 16          | 87381-1664                      | 87381-9004                             | 32 | 28.40 | 7.20 | 14.20 | 16.50 | 5.30 | B                      | 800                    |   |
|   |    |   |   |   |   |   | 18          | 87381-1864                      | 87381-1800                             | 32 | 28.40 | 7.20 | 14.20 | 18.50 | 5.30 | B                      | 750                    |   |
| E |    |   |   |   |   |   | 20          | 87381-2063                      | 87381-2000                             | 32 | 28.40 | 7.20 | 14.20 | 20.50 | 5.30 | B                      | 800                    |   |
|   |    |   |   |   |   |   | 22          | 87381-2264                      | 87381-2200                             | 44 | 40.40 | 7.20 | 20.20 | 22.50 | 5.30 | B                      | 500                    | E |
|   |    |   |   |   |   |   | 30          | 87381-3064                      | 87381-3000                             | 44 | 40.40 | 7.20 | 20.20 | 30.50 | 5.30 | B                      | 500                    |   |
|   |    |   |   |   |   |   | 32          | 87381-3264                      | 87381-3200                             | 44 | 40.40 | 7.20 | 20.20 | 32.50 | 5.30 | B                      | 500                    |   |
|   |    |   |   |   |   |   | 44          | 87381-4464                      | 87381-4400                             | 56 | 52.40 | 7.20 | 26.20 | 44.50 | 5.30 | B                      | 500                    |   |
|   |    |   |   |   |   |   | 46          | 87381-4664                      | 87381-4600                             | 72 | 68.40 | 7.20 | 34.20 | 46.50 | 5.30 | B                      | 750                    |   |
| D |    |   |   |   |   |   | 50          | 87381-5063                      | 87381-5030                             | 72 | 68.40 | 7.20 | 34.20 | 50.50 | 5.30 | B                      | 500                    |   |
|   |    |   |   |   |   |   | 50          | 87381-5064                      | 87381-5000                             | 72 | 68.40 | 7.20 | 34.20 | 50.50 | 5.30 | B                      | 500                    | D |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
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|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
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|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |
|   |    |   |   |   |   |   |             |                                 |                                        |    |       |      |       |       |      |                        |                        |   |

| CKT<br>SIZE | PART NO.<br>WITHOUT CAP<br>IN TUBE | PART NO.<br>WITHOUT CAP IN<br>TAPE / REEL                                                      | W  | So    | Ao   | F     | Bo    | Ko   | T&R<br>TYPE<br>(SHT 2) | T&R<br>QTY<br>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

|                                                             |                                                            |                                        |                    |                                      |                                                                                                                                  |       |                            |                    |                                                      |                        |                           |           |
|-------------------------------------------------------------|------------------------------------------------------------|----------------------------------------|--------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------|--------------------|------------------------------------------------------|------------------------|---------------------------|-----------|
| ADD P/N: 87381-3200                                         |                                                            | 2009/04/07<br>2009/04/06<br>2009/04/07 | DESCRIPTION<br>REV | QUALITY<br>SYMBOLS<br><br>▽=0<br>⋄=0 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                         |       | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>NTS                                         | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |           |
| EC NO: S2009-0725<br>DRWN:SKANG<br>CHKD:ATSEE<br>APPR:MLONG |                                                            |                                        |                    |                                      | mm                                                                                                                               | INCH  | DRAWN BY<br>JAMES          | DATE<br>1998/01/08 | TITLE<br>MGRID, TOP ENTRY RECEPT.<br>4.50MM HT., SMT |                        |                           |           |
|                                                             | 4 PLACES                                                   |                                        |                    |                                      | ± ---                                                                                                                            | ± --- | CHECKED BY<br>L CHANG      | DATE<br>1999/04/23 |                                                      |                        |                           |           |
|                                                             | 3 PLACES                                                   |                                        |                    |                                      | ± ---                                                                                                                            | ± --- | APPROVED BY<br>SQUEK       | DATE<br>1999/04/26 | MOLEX MOLEX INCORPORATED                             |                        |                           |           |
|                                                             | 2 PLACES                                                   |                                        |                    |                                      | ± 0.20                                                                                                                           | ± --- | MATERIAL NO.               |                    |                                                      |                        | DOCUMENT NO.              | SHEET NO. |
|                                                             | 1 PLACE                                                    |                                        |                    |                                      | ± ---                                                                                                                            | ± --- | SEE TABLE                  |                    | SD-87381-***6*                                       | 4 OF 4                 |                           |           |
|                                                             | ANGULAR ± 3 °                                              |                                        |                    |                                      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |       |                            |                    |                                                      |                        |                           |           |
|                                                             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                        |                    |                                      |                                                                                                                                  |       |                            |                    |                                                      |                        |                           |           |