

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

**Part Number:** [0873400875](#)  
**Status:** **Active**  
**Description:** 2.00mm (.079") Pitch Milli-Grid™ Receptacle, Surface Mount (Very Low Profile), Top Entry, without Locating Pegs, with Pick-and-Place Cap, 0.38µm (15µ") Gold (Au) Plating, 8 Circuits, Lead-free, Tube

**Documents:**  
[3D Model](#)  
[Drawing \(PDF\)](#)  
[RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
UL E29179

**General**

Product Family PCB Receptacles  
Series [87340](#)  
Application Board-to-Board  
Product Literature Order No 987650-1991  
Product Name Milli-Grid™

**Physical**

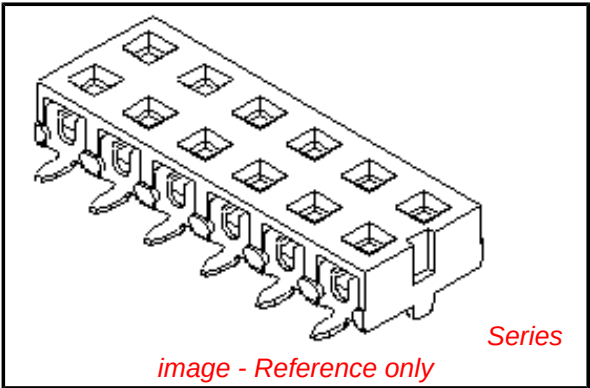
Circuits (Loaded) 8  
Color - Resin Black  
Durability (mating cycles max) 25  
Flammability 94V-0  
Glow-Wire Compliant No  
Lock to Mating Part Yes  
Material - Metal Phosphor Bronze  
Material - Plating Mating Gold  
Material - Plating Termination Tin  
Material - Resin High Temperature Thermoplastic  
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  
Plating min: Mating (µin) 15  
Plating min: Mating (µm) 0.38  
Plating min: Termination (µin) 76  
Plating min: Termination (µm) 1.9  
Polarized to Mating Part No  
Polarized to PCB No  
Robotic Placement Pick and Place Cap  
Surface Mount Compatible (SMC) N/A  
Temperature Range - Operating -55°C to +105°C  
Termination Interface: Style Surface Mount

**Electrical**

Current - Maximum per Contact 1A  
Voltage - Maximum 125V

**Solder Process Data**

Duration at Max. Process Temperature (seconds) 14  
Lead-free Process Capability Reflow Capable (SMT only)



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

**China RoHS**

**Need more information on product 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**  
[87340Series](#)

**Mates With**  
[87759](#) Vertical, Surface Mount, Stackable PCB Headers, [87760](#) Right Angle, Through Hole, Stackable PCB Headers, [87758](#) Vertical, Through Hole, Stackable PCB Headers

|                                         |     |
|-----------------------------------------|-----|
| Max. Cycles at Max. Process Temperature | 1   |
| Process Temperature max. C              | 265 |

**Material Info**

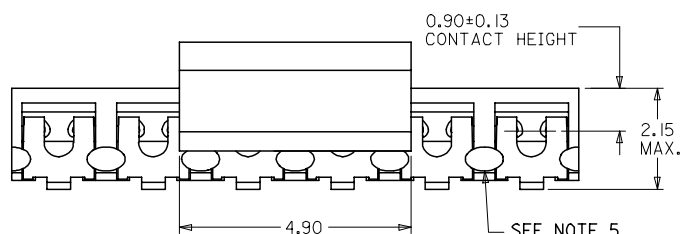
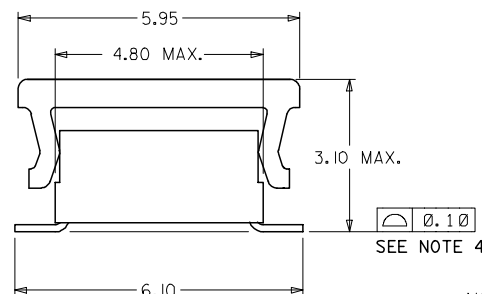
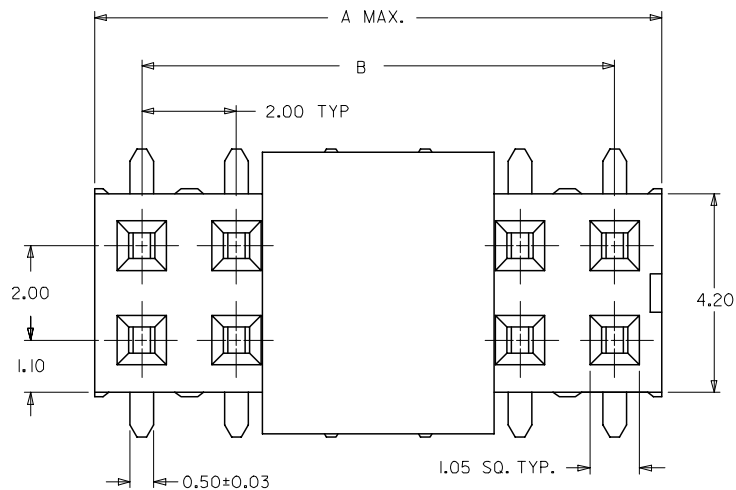
**Reference - Drawing Numbers**

|               |               |
|---------------|---------------|
| Sales Drawing | SD-87340-**74 |
|---------------|---------------|

This document was generated on 05/03/2010

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

| PART NUMBER<br>(WITH CAP IN<br>TUBE) | PART NUMBER<br>(WITH CAP IN<br>TAPE & REEL) | CKT.<br>SIZE | DIM. A | DIM. B |
|--------------------------------------|---------------------------------------------|--------------|--------|--------|
| 87340-04*5                           | 87340-04*6                                  | 04           | 4.00   | 2.00   |
| 87340-06*5                           | 87340-06*6                                  | 06           | 6.00   | 4.00   |
| 87340-08*5                           | 87340-08*6                                  | 08           | 8.00   | 6.00   |
| 87340-10*5                           | 87340-10*6                                  | 10           | 10.00  | 8.00   |
| 87340-12*5                           | 87340-12*6                                  | 12           | 12.00  | 10.00  |
| 87340-16*5                           | 87340-16*6                                  | 16           | 16.00  | 14.00  |



## PART NO. LEGEND

87340 - \* \* \* \*

CKTS SIZE \_\_\_\_\_

PLATING OPTIONS \_\_\_\_\_

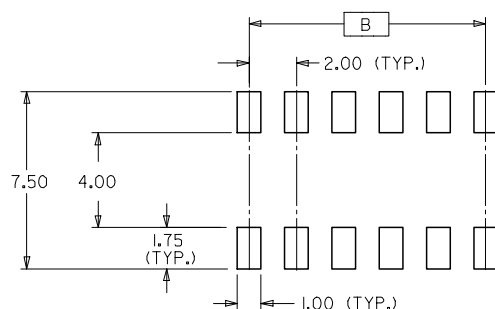
(SEE NOTE 3)

PACKAGING OPTIONS \_\_\_\_\_

5 - PACKAGED IN TUBE.

6 - PACKAGED IN TAPE & REEL.

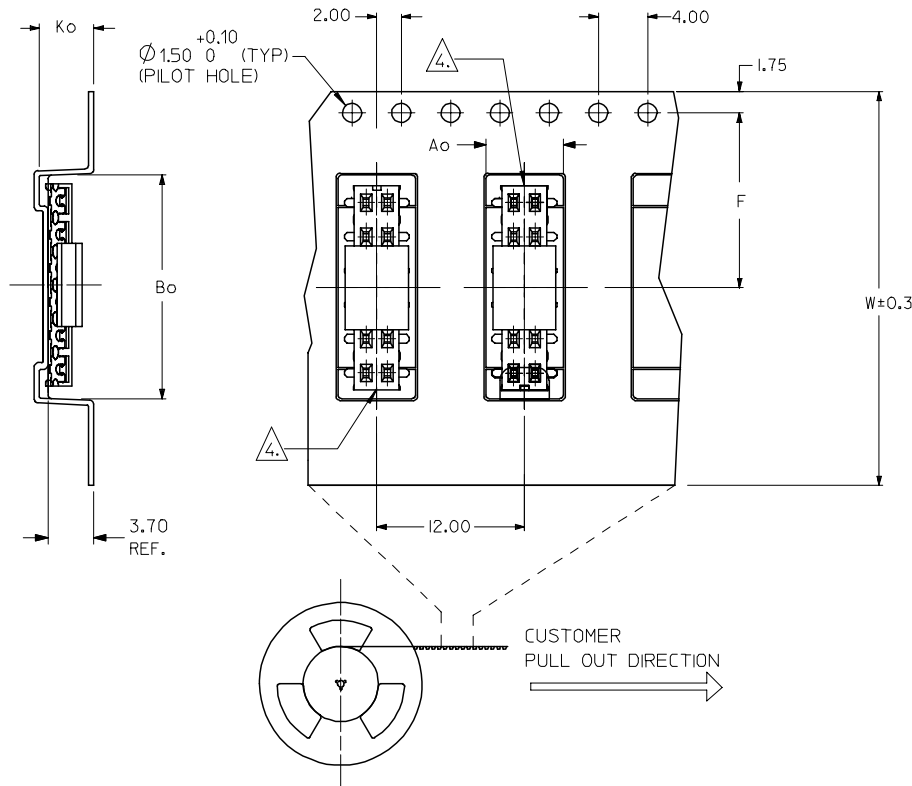
- NOTES :
1. FOR ILLUSTRATION PURPOSES, DRAWING SHOWS PART 12 CIRCUIT SIZE.
  2. MATERIAL :  
HOUSING :  
LCP GLASS FILLED, UL 94V-0  
SUITABLE FOR SURFACE-MOUNT SOLDERING PROCESS.  
COLOR : BLACK  
TERMINAL :  
PHOSPHOR BRONZE ALLOY
  3. PLATING FINISH:  
- \*\*7\*  
0.38um MIN GOLD AT TERMINAL CONTACT AREA.  
1.90um MIN TIN IN SOLDERTAIL AREA BOTH OVER  
1.27um MIN NICKEL OVERALL.  
- \*\*8\*  
0.76um MIN GOLD AT TERMINAL CONTACT AREA.  
1.90um MIN TIN IN SOLDERTAIL AREA BOTH OVER  
1.27um MIN NICKEL OVERALL.
  4. COPLANARITY OF P.C TAIL TO BE MEASURED BY RESTING THE PART ON A FLAT GAGE SURFACE.
  5. THIS AREA OF PART TO BE HEAT-STAKED TO RETAIN CONTACTS.
  6. POSITION OF CAP TO BE LOCATED AT CENTRE OF DIMENSION 'A' REGARDLESS OF CIRCUIT SIZE.
  7. PRODUCT SPECIFICATION PS-87340 APPLIES.
  8. PART TO BE PACKED IN TUBE OR TAPE & REEL. SEE SHEET 2 FOR PACKAGING DETAILS.
  9. CONTACT FACTORY FOR PARTS AVAILABILITY.



RECOMMENDED SOLDER PAD DESIGN (NTS)

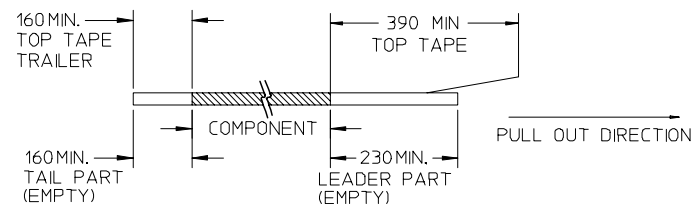
|                                                                                    |                                        |                   |     |                 |                                                                                                                                                                                                                                                                                   |       |                            |      |                                                                                                                               |                        |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
|------------------------------------------------------------------------------------|----------------------------------------|-------------------|-----|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------|------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|-------|----------|-------|-------|----------|--------|-------|---------|-------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------|------------|------------|------|-------|------------|-------------|------|-------|------------|-------|--|
| PDR#S-001595-00-00<br>EC NO: S2007-1036<br>DRWNS:KANG<br>CHK'DAT:SEE<br>APPR:MLONG | 2007/06/13<br>2007/06/14<br>2007/06/14 | DESCRIPTION<br>D2 | REV | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                                                                                                                                                             |       | DIMENSION STYLE<br>MM ONLY |      | SCALE<br>NTS                                                                                                                  | DESIGN UNITS<br>METRIC |  THIRD ANGLE<br>PROJECTION |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
|                                                                                    |                                        |                   |     | ▼=0<br>▽=0      | <table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>2 PLACES</td><td>± 0.20</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr></table> |       | mm                         | INCH | 4 PLACES                                                                                                                      | ± ---                  |                                                                                                                 | ± --- | 3 PLACES | ± --- | ± --- | 2 PLACES | ± 0.20 | ± --- | 1 PLACE | ± --- | ± --- | <table><tr><td>DRAWN BY</td><td>DATE</td></tr><tr><td>PTLIM</td><td>1996/04/03</td></tr><tr><td>CHECKED BY</td><td>DATE</td></tr><tr><td>SKTOH</td><td>1996/04/08</td></tr><tr><td>APPROVED BY</td><td>DATE</td></tr><tr><td>RWONG</td><td>1996/04/19</td></tr></table> | DRAWN BY | DATE | PTLIM | 1996/04/03 | CHECKED BY | DATE | SKTOH | 1996/04/08 | APPROVED BY | DATE | RWONG | 1996/04/19 | TITLE |  |
|                                                                                    |                                        |                   |     |                 | mm                                                                                                                                                                                                                                                                                | INCH  |                            |      |                                                                                                                               |                        |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
|                                                                                    |                                        |                   |     | 4 PLACES        | ± ---                                                                                                                                                                                                                                                                             | ± --- |                            |      |                                                                                                                               |                        |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
| 3 PLACES                                                                           | ± ---                                  | ± ---             |     |                 |                                                                                                                                                                                                                                                                                   |       |                            |      |                                                                                                                               |                        |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
| 2 PLACES                                                                           | ± 0.20                                 | ± ---             |     |                 |                                                                                                                                                                                                                                                                                   |       |                            |      |                                                                                                                               |                        |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
| 1 PLACE                                                                            | ± ---                                  | ± ---             |     |                 |                                                                                                                                                                                                                                                                                   |       |                            |      |                                                                                                                               |                        |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
| DRAWN BY                                                                           | DATE                                   |                   |     |                 |                                                                                                                                                                                                                                                                                   |       |                            |      |                                                                                                                               |                        |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
| PTLIM                                                                              | 1996/04/03                             |                   |     |                 |                                                                                                                                                                                                                                                                                   |       |                            |      |                                                                                                                               |                        |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
| CHECKED BY                                                                         | DATE                                   |                   |     |                 |                                                                                                                                                                                                                                                                                   |       |                            |      |                                                                                                                               |                        |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
| SKTOH                                                                              | 1996/04/08                             |                   |     |                 |                                                                                                                                                                                                                                                                                   |       |                            |      |                                                                                                                               |                        |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
| APPROVED BY                                                                        | DATE                                   |                   |     |                 |                                                                                                                                                                                                                                                                                   |       |                            |      |                                                                                                                               |                        |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
| RWONG                                                                              | 1996/04/19                             |                   |     |                 |                                                                                                                                                                                                                                                                                   |       |                            |      |                                                                                                                               |                        |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
| MGRID, VLPR II<br>TOP ENTRY RECEPTACLE<br>W/O LOC PEGS, SMT                        |                                        |                   |     |                 |                                                                                                                                                                                                                                                                                   |       |                            |      |                                                                                                                               |                        |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
| MOLEX MOLEX INCORPORATED                                                           |                                        |                   |     |                 |                                                                                                                                                                                                                                                                                   |       |                            |      |                                                                                                                               |                        |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                         |                                        |                   |     |                 | ANGULAR ± 3 °                                                                                                                                                                                                                                                                     |       | MATERIAL NO.               |      | DOCUMENT NO.                                                                                                                  | SHEET NO.              |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
|                                                                                    |                                        |                   |     |                 |                                                                                                                                                                                                                                                                                   |       | SEE TABLE                  |      | SD-87340-**74                                                                                                                 | 1 OF 2                 |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
|                                                                                    |                                        |                   |     |                 |                                                                                                                                                                                                                                                                                   |       | SIZE<br>A3                 |      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
|                                                                                    |                                        |                   |     |                 |                                                                                                                                                                                                                                                                                   |       |                            |      |                                                                                                                               |                        |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
|                                                                                    |                                        |                   |     |                 |                                                                                                                                                                                                                                                                                   |       |                            |      |                                                                                                                               |                        |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |
|                                                                                    |                                        |                   |     |                 |                                                                                                                                                                                                                                                                                   |       |                            |      |                                                                                                                               |                        |                                                                                                                 |       |          |       |       |          |        |       |         |       |       |                                                                                                                                                                                                                                                                         |          |      |       |            |            |      |       |            |             |      |       |            |       |  |

EMBOSSED CARRIER TAPE WITH DIMENSIONS  
(12 CKT IS SHOWN FOR ILLUSTRATION ONLY)

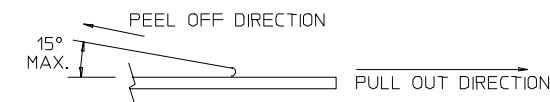


NOTES:

1. LEADER AND TRAILER TAPE



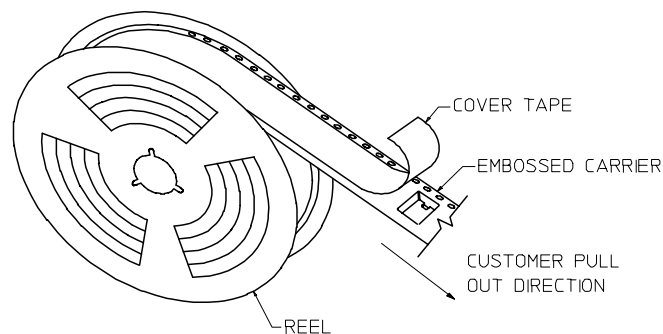
2. PEELING OFF FORCE OF THE TOP TAPE: 20-80gf.  
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



3. PACKAGING STANDARD IS AS PER EIA-481.

4. TAPE & REEL QUANTITY = 1000 PCS/REEL

5. NO FIX ORIENTATION OF ASSEMBLY PART IN T&R.



TAPE AND REEL ASSEMBLY SHOWN IS FOR ILLUSTRATION ONLY

|                    |            |             |                 |
|--------------------|------------|-------------|-----------------|
| PDR#S-001595-00-00 | 2007/06/13 | 2007/06/14  | 2007/06/14      |
| EC NO: S2007-1036  | DRWN:SKANG | CHKD:ATSEE  | APPR:MLONG      |
| D2                 | REV        | DESCRIPTION | QUALITY SYMBOLS |

|                 |
|-----------------|
| QUALITY SYMBOLS |
| ▽=0             |
| ▽=0             |

| GENERAL TOLERANCES (UNLESS SPECIFIED) |        |       |
|---------------------------------------|--------|-------|
|                                       | mm     | INCH  |
| 4 PLACES                              | ± ---  | ± --- |
| 3 PLACES                              | ± ---  | ± --- |
| 2 PLACES                              | ± 0.20 | ± --- |
| 1 PLACE                               | ± ---  | ± --- |
| ANGULAR ± 3 °                         |        |       |

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

| DIMENSION STYLE<br>MM ONLY |            |
|----------------------------|------------|
| DRAWN BY                   | DATE       |
| PTL IM                     | 1996/04/03 |
| CHECKED BY                 | DATE       |
| SKTOH                      | 1996/04/08 |
| APPROVED BY                | DATE       |
| RWONG                      | 1996/04/19 |

MATERIAL NO. SEE TABLE

SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| SCALE                                                       | DESIGN UNITS | THIRD ANGLE PROJECTION |
|-------------------------------------------------------------|--------------|------------------------|
| NTS                                                         | METRIC       |                        |
| TITLE                                                       |              |                        |
| MGRID, VLPR II<br>TOP ENTRY RECEPTACLE<br>W/O LOC PEGS, SMT |              |                        |
| MOLEX INCORPORATED                                          |              |                        |
| DOCUMENT NO.                                                | SHEET NO.    |                        |
| SD-87340-***74                                              | 2 OF 2       |                        |