

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

**Part Number:** [0872632493](#)  
**Status:** **Active**  
**Description:** 2.00mm (.079") Pitch Milli-Grid™ Receptacle, Surface Mount, Bottom Entry, 0.38µm (15µ") Gold (Au) Selective, 24 Circuits, with Pick-and-Place Cap, Embossed Tape on Reel, Leadfree

**Documents:**

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

**Agency Certification**

CSA LR19980  
UL E29179

**General**

Product Family PCB Receptacles  
Series [87263](#)  
Application Board-to-Board  
Product Literature Order No 987650-1991  
Product Name Milli-Grid™

**Physical**

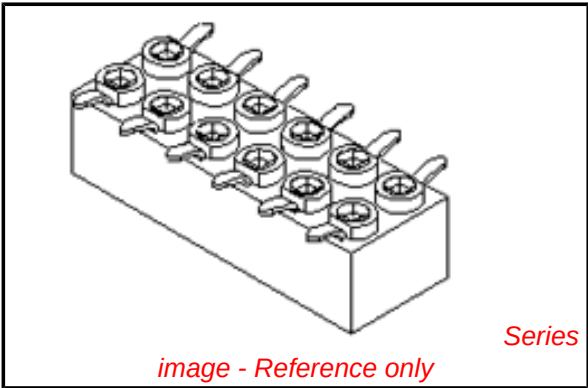
Circuits (Loaded) 24  
Color - Resin Black  
Durability (mating cycles max) 25  
Flammability 94V-0  
Glow-Wire Compliant No  
Lock to Mating Part None  
Material - Plating Mating Gold  
Material - Plating Termination Tin  
Material - Resin High Temperature Thermoplastic  
Number of Rows 2  
Orientation Bottom Entry  
PCB Locator Yes  
PCB Retention None  
Packaging Type Embossed Tape on Reel  
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) 15  
Plating min: Mating (µm) 0.38  
Polarized to Mating Part No  
Polarized to PCB Yes  
Robotic Placement Pick and Place Cap  
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)  
Max. Cycles at Max. Process Temperature 1  
Process Temperature max. C 265



**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**  
[87263Series](#)

**Mates With**

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

**Material Info**

**Reference - Drawing Numbers**

Sales Drawing

SD-87263-\*\*2\*

This document was generated on 04/27/2010

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F

E

D

C

B

A

F

E

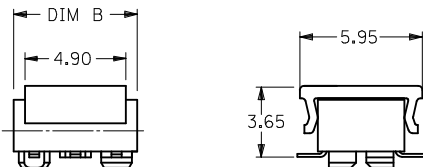
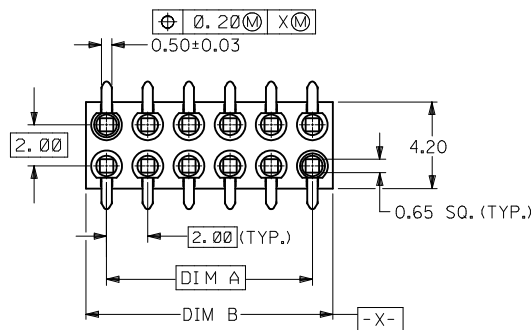
D

C

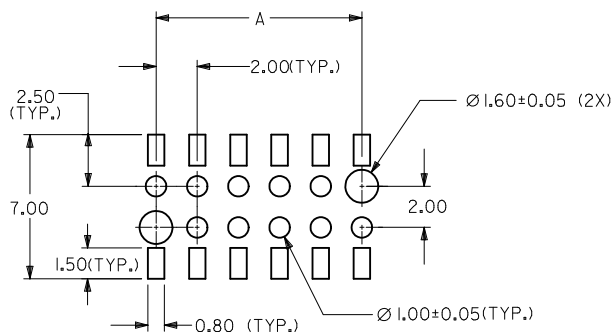
B

A

10987654321



PARTS TO BE PACK WITH CAP (12 CKT SHOWN)



RECOMMENDED SOLDER PAD DESIGN

**PART NO. LEGEND**

87263 - \* \* \* \*

CIRCUIT SIZE

PLATING OPTION

3 - 0.38µm MIN. GOLD

5 - 0.76µm MIN. GOLD

6 - (0.13-0.38)µm GOLD FLASH

PACKAGING

0 - W/CAP IN TUBE (SEE SHEET 2)

2 - W/O CAP IN TUBE (SEE SHEET 2)

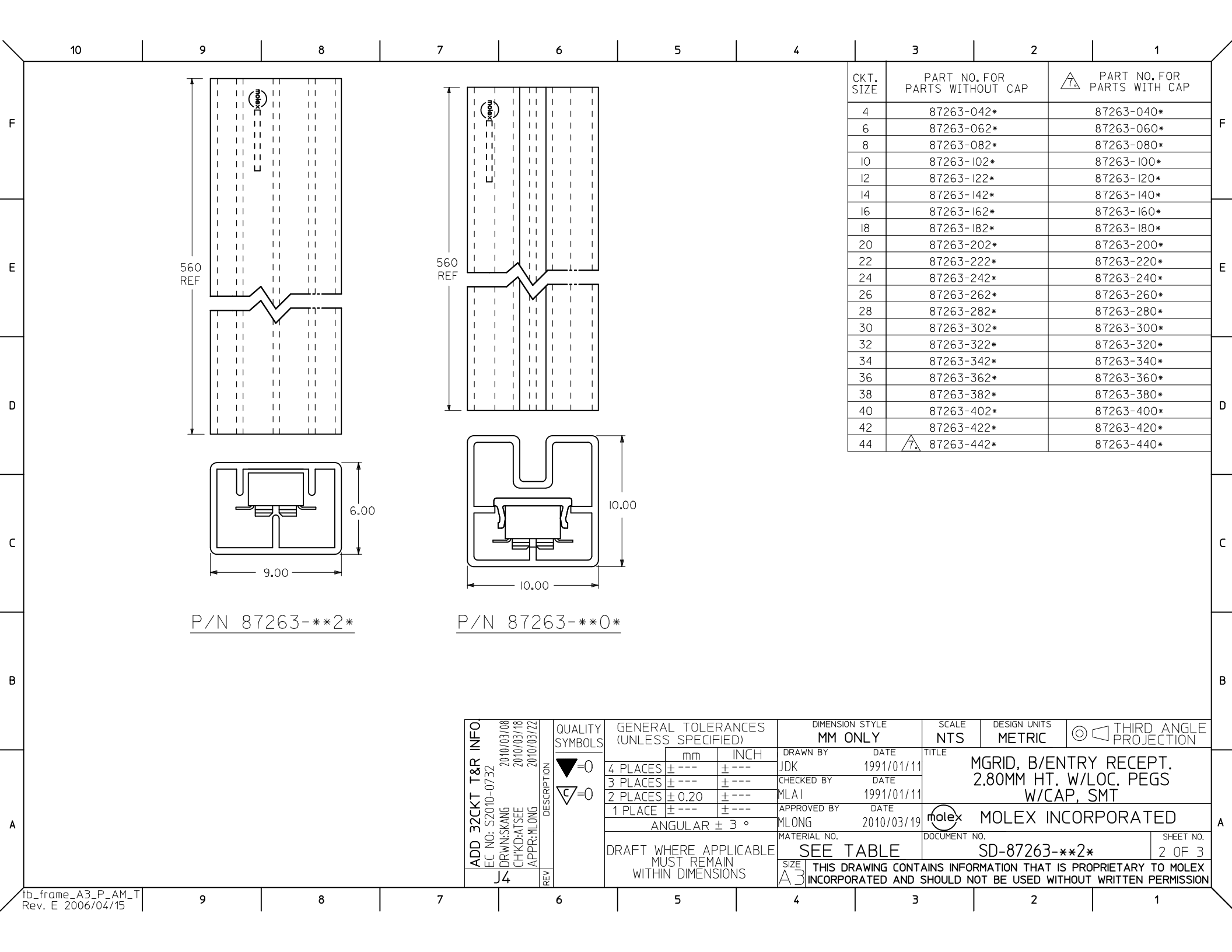
9 - W/CAP IN TAPE &amp; REEL (SEE SHEET 3)

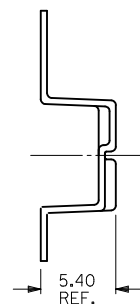
| CKT. SIZE | DIM. A | DIM. B |
|-----------|--------|--------|
| 4         | 2.00   | 4.00   |
| 6         | 4.00   | 6.00   |
| 8         | 6.00   | 8.00   |
| 10        | 8.00   | 10.00  |
| 12        | 10.00  | 12.00  |
| 14        | 12.00  | 14.00  |
| 16        | 14.00  | 16.00  |
| 18        | 16.00  | 18.00  |
| 20        | 18.00  | 20.00  |
| 22        | 20.00  | 22.00  |
| 24        | 22.00  | 24.00  |
| 26        | 24.00  | 26.00  |
| 28        | 26.00  | 28.00  |
| 30        | 28.00  | 30.00  |
| 32        | 30.00  | 32.00  |
| 34        | 32.00  | 34.00  |
| 36        | 34.00  | 36.00  |
| 38        | 36.00  | 38.00  |
| 40        | 38.00  | 40.00  |
| 42        | 40.00  | 42.00  |
| 44        | 42.00  | 44.00  |

**NOTES:**

- FOR ILLUSTRATION PURPOSES, DRAWING SHOWS PART WITH 12 CIRCUIT SIZE.
- PLATING  
POST-PLATING - SELECTIVE GOLD (SEE LEGEND) AT CONTACT AREA, AND 1.27µm MIN. SELECTIVE TIN AT SOLDER AREA BOTH OVER 1.27µm MIN. NICKEL OVERALL.
- CO-PLANARITY OF P.C TAIL TO BE MEASURED BY RESTING THE PART ON A FLAT GAGE SURFACE.
- PRODUCT SPECIFICATION PS-87263 APPLIES.
- CAP : HIGH TEMPERATURE THERMOPLASTIC, UL RATED 94V-0, SUITABLE FOR SURFACE-MOUNT SOLDERING PROCESS. COLOR BLACK
- POSITION OF CAP TO BE CENTRAL WITH RESPECT TO DIMENSION "A"
- CONTACT FACTORY FOR DETAILS ON THIS PART NO.
- PARTS SHALL BE PACKED IN MOISTURE BARRIER BAG.

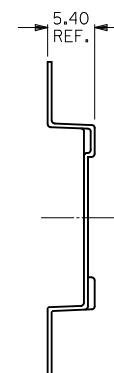
|                                                                                                                          |  |  |             |                                   |                                       |                                                                                                                                  |                            |  |                                                                         |                        |                           |  |                                |  |                     |  |
|--------------------------------------------------------------------------------------------------------------------------|--|--|-------------|-----------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|--|-------------------------------------------------------------------------|------------------------|---------------------------|--|--------------------------------|--|---------------------|--|
| ADD 32CKT T&R INFO<br>EC NO: S2010-0732<br>DRWN:SKANG 2010/03/08<br>CHKD:ATSEE 2010/03/18<br>APPR:MLONG 2010/03/22<br>J4 |  |  | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>◻=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |                                                                                                                                  | DIMENSION STYLE<br>MM ONLY |  | SCALE<br>NTS                                                            | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |                                |  |                     |  |
|                                                                                                                          |  |  |             |                                   |                                       |                                                                                                                                  | DRAWN BY<br>DATE           |  | TITLE<br>MGRID, B/ENTRY RECEPT.<br>2.80MM HT. W/LOC. PEGS<br>W/CAP, SMT |                        |                           |  |                                |  |                     |  |
|                                                                                                                          |  |  |             |                                   |                                       |                                                                                                                                  | CHECKED BY<br>DATE         |  |                                                                         |                        |                           |  |                                |  |                     |  |
|                                                                                                                          |  |  |             |                                   |                                       |                                                                                                                                  | APPROVED BY<br>DATE        |  |                                                                         |                        |                           |  |                                |  |                     |  |
|                                                                                                                          |  |  |             |                                   | mm                                    |                                                                                                                                  | INCH                       |  | MLONG 2010/03/19                                                        |                        | molex MOLEX INCORPORATED  |  | DOCUMENT NO.<br>SD-87263-***2* |  | SHEET NO.<br>1 OF 3 |  |
|                                                                                                                          |  |  |             |                                   | ANGULAR ± 3 °                         |                                                                                                                                  |                            |  | MATERIAL NO.<br>SEE TABLE                                               |                        |                           |  |                                |  |                     |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                               |  |  |             | SIZE<br>A3                        |                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                            |  |                                                                         |                        |                           |  |                                |  |                     |  |





SECTION U-U

PART NO. 87263-\*\*\*9\* (CKTS 04 TO 14)  
SINGLE SPROCKET HOLE T/REEL - TYPE A



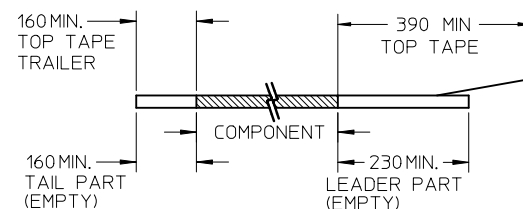
SECTION V-V

PART NO. 87263-\*\*9\* (CKTS 16 TO 40)  
DOUBLE SPROCKET HOLE T/REEL - TYPE B

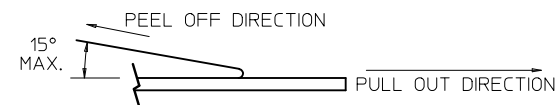
|  | PART NO. FOR<br>PARTS IN T/REEL | CKT.<br>SIZE | F    | So   | W  | T/REEL<br>TYPE |
|-------------------------------------------------------------------------------------|---------------------------------|--------------|------|------|----|----------------|
|                                                                                     | 87263-049*                      | 4            | 11.5 | -    | 24 | A              |
|                                                                                     | 87263-069*                      | 6            | 11.5 | -    | 24 |                |
|                                                                                     | 87263-089*                      | 8            | 11.5 | -    | 24 |                |
|                                                                                     | 87263-109*                      | 10           | 11.5 | -    | 24 |                |
|                                                                                     | 87263-129*                      | 12           | 11.5 | -    | 24 |                |
|                                                                                     | 87263-149*                      | 14           | 11.5 | -    | 24 | B              |
|                                                                                     | 87263-169*                      | 16           | 11.5 | -    | 24 |                |
|                                                                                     | 87263-189*                      | 18           | 14.2 | 28.4 | 32 |                |
|                                                                                     | 87263-209*                      | 20           | 20.2 | 40.4 | 44 |                |
|                                                                                     | 87263-229*                      | 22           | -    | -    | -  |                |
|                                                                                     | 87263-249*                      | 24           | 20.2 | 40.4 | 44 |                |
|                                                                                     | 87263-269*                      | 26           | 20.2 | 40.4 | 44 |                |
|                                                                                     | 87263-289*                      | 28           | 20.2 | 40.4 | 44 |                |
|                                                                                     | 87263-309*                      | 30           | 20.2 | 40.4 | 44 |                |
|                                                                                     | 87263-329*                      | 32           | 26.2 | 52.4 | 56 |                |
|                                                                                     | 87263-349*                      | 34           | -    | -    | -  |                |
|                                                                                     | 87263-369*                      | 36           | 26.2 | 52.4 | 56 |                |
|                                                                                     | 87263-389*                      | 38           | -    | -    | -  |                |
|                                                                                     | 87263-409*                      | 40           | -    | -    | -  |                |

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 = 1000PCS/REEL.
5. THE TAPE IS TREATED FOR ANTI-STATIC.

|                                                                                     |                                        |                           |                 |                                                            |                                                                                                                               |                            |                     |                                                                          |                                                                         |                           |  |  |
|-------------------------------------------------------------------------------------|----------------------------------------|---------------------------|-----------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------|--|--|
| ADD 32CKT T&R INFO<br>EC NO: S2010-0732<br>DRWNS:SKANG<br>CHK'DAT:SEE<br>APPR:MLONG | 2010/03/08<br>2010/03/18<br>2010/03/12 | DESCRIPTION<br>▽=0<br>▽=0 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |                                                                                                                               | DIMENSION STYLE<br>MM ONLY |                     | SCALE<br>NTS                                                             | DESIGN UNITS<br>METRIC                                                  | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                     |                                        |                           |                 |                                                            | mm                                                                                                                            | INCH                       | DRAWN BY<br>DATE    |                                                                          | TITLE<br>MGRID, B/ENTRY RECEPT.<br>2.80MM HT. W/LOC. PEGS<br>W/CAP, SMT |                           |  |  |
|                                                                                     |                                        |                           |                 | 4 PLACES                                                   | ± ---                                                                                                                         | ± ---                      | JDK                 | 1991/01/11                                                               |                                                                         |                           |  |  |
|                                                                                     |                                        |                           |                 | 3 PLACES                                                   | ± ---                                                                                                                         | ± ---                      | CHECKED BY<br>DATE  |                                                                          |                                                                         |                           |  |  |
|                                                                                     |                                        |                           |                 | 2 PLACES                                                   | ± 0.20                                                                                                                        | ± ---                      | MLAI                | 1991/01/11                                                               |                                                                         |                           |  |  |
|                                                                                     |                                        |                           |                 | 1 PLACE                                                    | ± ---                                                                                                                         | ± ---                      | APPROVED BY<br>DATE | MOLEX MOLEX INCORPORATED<br>DOCUMENT NO. SD-87263-**-2* SHEET NO. 3 OF 3 |                                                                         |                           |  |  |
|                                                                                     |                                        |                           |                 | ANGULAR ± 3 °                                              |                                                                                                                               | MLONG                      | 2010/03/19          |                                                                          |                                                                         |                           |  |  |
|                                                                                     |                                        |                           |                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                               | MATERIAL NO.<br>SEE TABLE  |                     |                                                                          |                                                                         |                           |  |  |
| J4                                                                                  | REV                                    |                           |                 | SIZE<br>A3                                                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                            |                     |                                                                          |                                                                         |                           |  |  |