

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0879795006](#)  
**Status:** **Active**  
**Overview:** milligrid  
**Description:** 2.00mm (.079") Pitch Milli-Grid™ Breakaway Header, Horizontal Surface Mount, 50 Circuits, Tin (Sn) Overall Plating, Tray Packaging, Lead-free

**Documents:**

[3D Model](#) [Product Specification PS-87761-100 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**General**

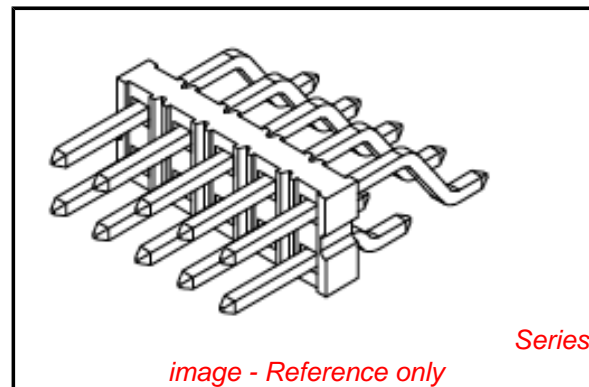
|                |                               |
|----------------|-------------------------------|
| Product Family | PCB Headers                   |
| Series         | <a href="#">87979</a>         |
| Application    | Board-to-Board, Wire-to-Board |
| Overview       | <a href="#">milligrid</a>     |
| Product Name   | Milli-Grid™                   |

**Physical**

|                                |                 |
|--------------------------------|-----------------|
| Breakaway                      | Yes             |
| Circuits (Loaded)              | 50              |
| Circuits (maximum)             | 50              |
| Color - Resin                  | Black           |
| First Mate / Last Break        | No              |
| Glow-Wire Compliant            | No              |
| Guide to Mating Part           | No              |
| Keying to Mating Part          | None            |
| Lock to Mating Part            | None            |
| Mated Height (in)              | 0.157 In        |
| Mated Height (mm)              | 4.00 mm         |
| Material - Plating Mating      | Tin             |
| Material - Plating Termination | Nickel          |
| Material - Resin               | Nylon           |
| Number of Rows                 | 2               |
| Orientation                    | Parallel        |
| PCB Locator                    | No              |
| PCB Retention                  | None            |
| Packaging Type                 | Tray            |
| 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)      | 100             |
| Plating min: Mating (µm)       | 2.54            |
| Plating min: Termination (µin) | 50              |
| Plating min: Termination (µm)  | 1.27            |
| Polarized to Mating Part       | No              |
| Polarized to PCB               | No              |
| Shrouded                       | No              |
| Stackable                      | No              |
| Temperature Range - Operating  | -55°C to +105°C |
| Termination Interface: Style   | Surface Mount   |

**Electrical**

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 2A   |
| Voltage - Maximum             | 125V |



**EU RoHS**

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

**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**

[87979Series](#)

**Mates With**

[87985](#) Milli-Grid™ 2mm IDT Receptacle with Metal Latch

**Material Info**

**Reference - Drawing Numbers**

Product Specification

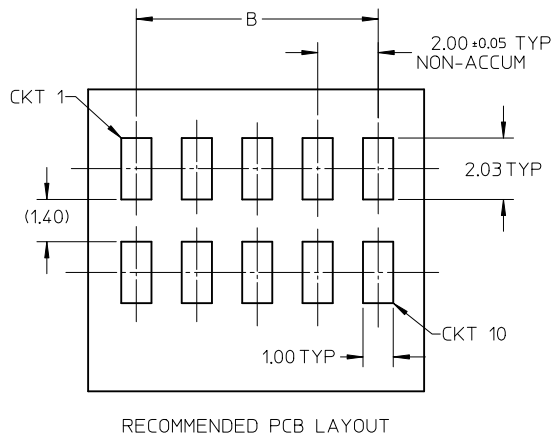
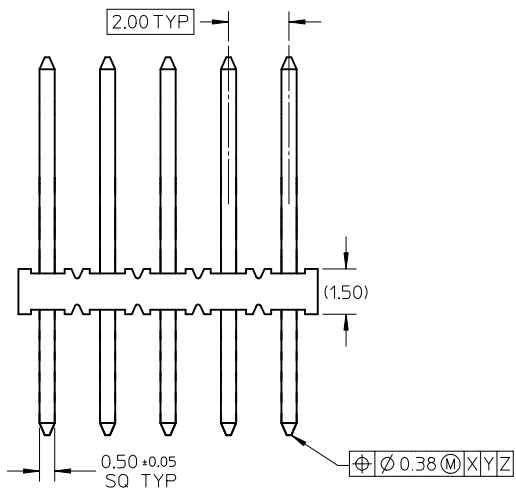
PS-87761-100

Sales Drawing

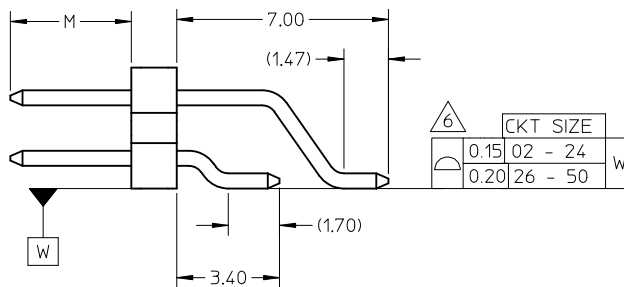
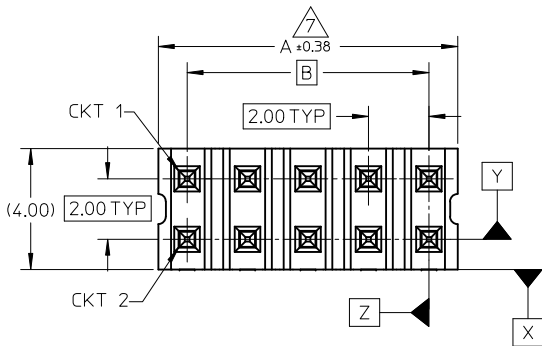
SD-87979-002

This document was generated on 05/26/2010

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

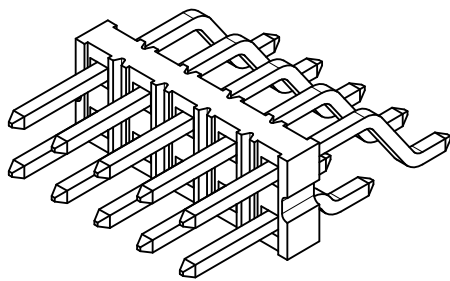


RECOMMENDED PCB LAYOUT



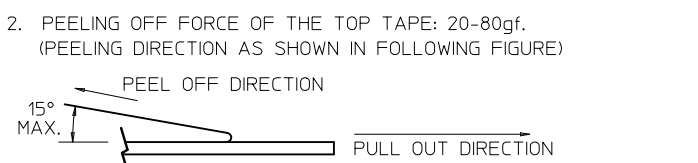
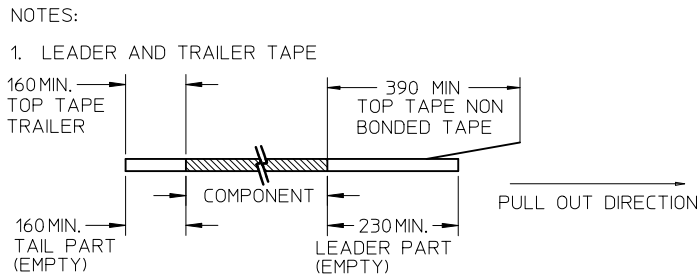
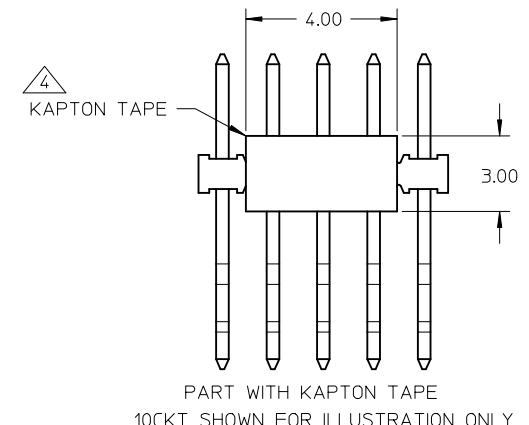
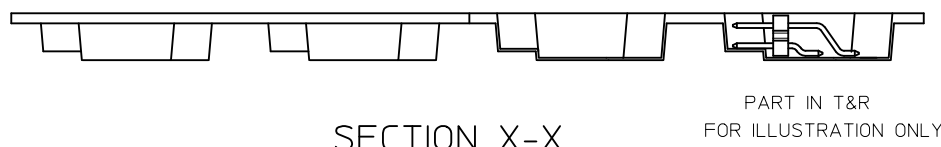
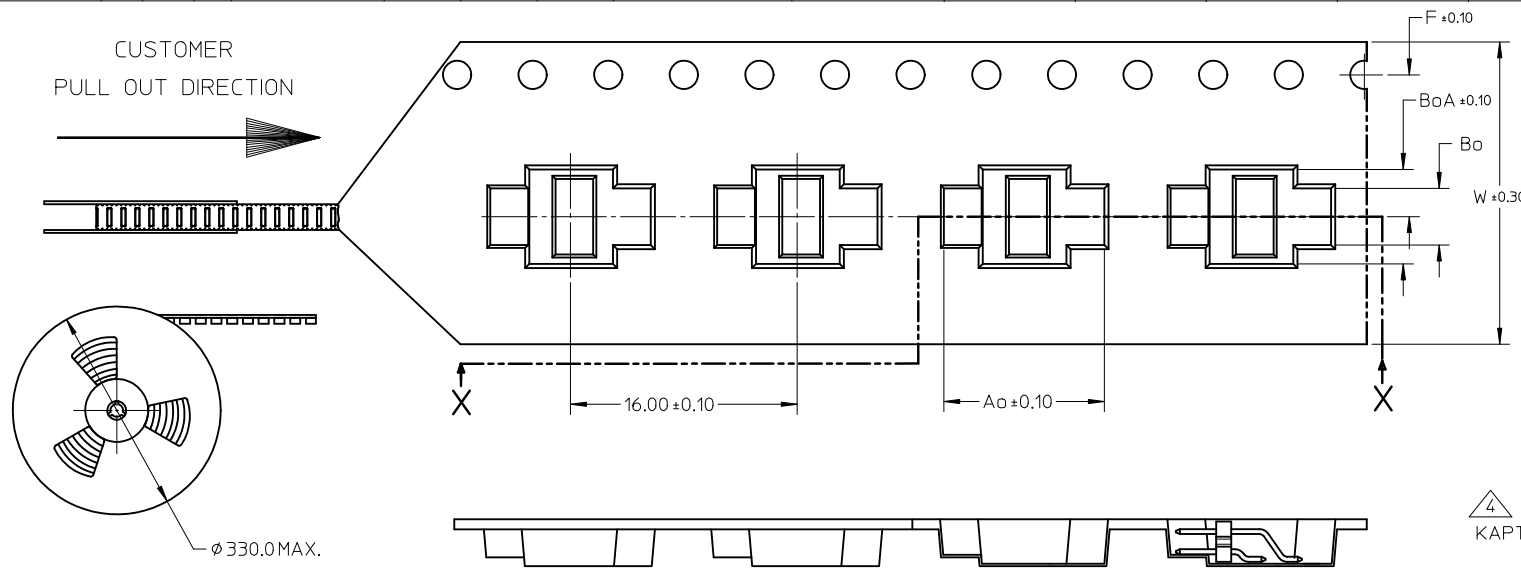
NOTES

- MATERIAL:  
HSG: NYLON, GLASS-FILLED, UL94V-0 COLOR: BLACK  
PIN: 0.50MM SQ, COPPER ALLOY
- PLATING TYPE:
  - GOLD FLASH OVER  
1.270µm MIN. NICKEL OVERALL.
  - GOLD FLASH ON CONTACT AND  
1.905µm MIN. TIN ON SOLDER TAIL OVER  
1.270µm MIN. NICKEL OVERALL.
  - 0.254µm MIN. GOLD PLATE ON CONTACT AND  
1.905µm MIN. TIN ON SOLDER TAIL OVER  
1.270µm MIN. NICKEL OVERALL.
  - 0.381µm MIN. GOLD PLATE ON CONTACT AND  
1.905µm MIN. TIN ON SOLDER TAIL OVER  
1.270µm MIN. NICKEL OVERALL.
  - 0.762µm MIN. GOLD PLATE ON CONTACT AND  
1.905µm MIN. TIN ON SOLDER TAIL OVER  
1.270µm MIN. NICKEL OVERALL.
  - 2.540µm MIN. TIN OVERALL  
1.270µm MIN. NICKEL OVERALL
- PRODUCT SPECIFICATION: PS-87761-100
- PACKAGING TYPE: SEE TABLE
- WAFER TO BE FLAT WITHIN 0.003 mm/mm
- COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A GAUGE SURFACE
- IRREGULAR CIRCUIT CUTOFF WITHIN BREAKAWAY SECTION IS PERMISSIBLE. CUTTING OR CHIPPING OF THE MAIN BODY IS NOT ACCEPTABLE
- RECOMMENDED PCB THICKNESS IS 1.60mm±0.10
- THE ABOVE CKT 10 IS FOR ILLUSTRATION PURPOSE ONLY
- PACKAGING SPECIFICATION:  
TRAY: PK-89990-487  
T&R : PK-89990-484



|  |                               |                                       |       |                            |                      |   |                        |                        |  |  |
|--|-------------------------------|---------------------------------------|-------|----------------------------|----------------------|---|------------------------|------------------------|--|--|
| T&R FOR 87979-0806<br>EC NO: S2010-0785<br>DRWN:SKANG 2010/03/22<br>CHKD:ATSEE 2010/03/29<br>APPR:MLONG 2010/04/13 | QUALITY SYMBOLS<br>▽=0<br>◻=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |       | DIMENSION STYLE<br>MM ONLY |                      | SCALE<br>NTS  | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |  |  |
|  |                               |                                       | mm    | INCH                       | DRAWN BY<br>KCHO     | DATE<br>2005/01/31  | TITLE<br>CUSTOM HEADER |                        |  |  |
|  |                               | 4 PLACES                              | ± --- | ± ---                      | CHECKED BY<br>PTL IM | DATE<br>2005/02/17  | MGRID DUAL ROW HEADER  |                        |  |  |
|  |                               | 3 PLACES                              | ± --- | ± ---                      | APPROVED BY<br>SCLOW | DATE<br>2005/02/17  | S/WFR, HORIZONTAL SMT  |                        |  |  |
|  | 2 PLACES                      | ± 0.20                                | ± --- | MATERIAL NO.<br>SEE TABLE  |                      | DOCUMENT NO.<br>SD-87979-002  |                        | SHEET NO.<br>1 OF 2    |  |  |
|  | 1 PLACE                       | ± ---                                 | ± --- | SIZE<br>A3                 |                      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                        |  |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS   |                               | ANGULAR ± 3 °                         |       |                            |                      |   |                        |                        |  |  |

| PART NO.   | CKT SIZE | PEG | PLATE OPT. | VOID POSITION | DIMENSION  |       |              | WITH KAPTON TAPE | PACKAGING OPTION | Bo   | BoA  | Ao    | F    | W     |
|------------|----------|-----|------------|---------------|------------|-------|--------------|------------------|------------------|------|------|-------|------|-------|
|            |          |     |            |               | A          | B     | MATING END M |                  |                  |      |      |       |      |       |
|            |          |     |            |               | 87979-0406 | 4     | N            |                  |                  |      |      |       |      |       |
| 87979-0806 | 8        | N   | 6          | ----          | 8.00       | 6.00  | 4.00         | YES              | T&R              | 7.00 | 9.00 | 13.00 | 7.50 | 16.00 |
| 87979-5006 | 50       | N   | 6          | ----          | 50.00      | 48.00 | 4.00         | NO               | TRAY             | -    | -    | -     | -    | -     |



- PACKAGING STANDARD IS AS PER EIA-481.
- KAPTON TAPE SHOULD BE LOCATED AS CENTRAL OF PART AS POSSIBLE.
- TAPE & REEL QUANTITY : TBA

|  |  |  |                           |   |                       |               |              |                        |        |
|--|--|--|---------------------------|---|-----------------------|---------------|--------------|------------------------|--------|
| <b>T&amp;R FOR 87979-0806</b><br>EC NO: S2010-0785<br>DRWN:SKANG<br>CHKD:ATSEE<br>APPR:MLONG | 2010/03/22<br>2010/03/29<br>2010/04/13 | DESCRIPTION<br>REV                                   | QUALITY SYMBOLS           | GENERAL TOLERANCES (UNLESS SPECIFIED)   | DIMENSION STYLE       | SCALE         | DESIGN UNITS | THIRD ANGLE PROJECTION |        |
|  |  |  | $\nabla=0$<br>$\square=0$ | mm    INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± 0.20 ± ---<br>1 PLACE ± --- ± ---<br>ANGULAR ± 3°    | MM ONLY               | NTS           | METRIC       |                        |        |
|  |  |  |                           | DRAWN BY: KCHO    DATE: 2005/01/31  | TITLE                 | CUSTOM HEADER |              |                        |        |
|  |  |  |                           | CHECKED BY: PTLIM    DATE: 2005/02/17   | MGRID DUAL ROW HEADER |               |              |                        |        |
|  | APPROVED BY: SCLOW    DATE: 2005/02/17 | S/WFR, HORIZONTAL SMT                                |                           |   |                       |               |              |                        |        |
|  |  | MATERIAL NO.   |                           |   | DOCUMENT NO.          |               |              | SHEET NO.              |        |
|  |  | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                           |   | SEE TABLE             |               |              | SD-87979-002           | 2 OF 2 |
|  |  |  |                           | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                       |               |              |                        |        |