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Part Number: [0877583850](#)
Status: **Active**
Overview: milligrid
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Through Hole, Vertical, 38 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating, Tray Packaging, Lead-free

Documents:

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

Agency Certification

UL E29179

General

Product Family PCB Headers
 Series [87758](#)
 Application Board-to-Board
 Overview [milligrid](#)
 Product Name Milli-Grid™

Physical

Breakaway Yes
 Circuits (Loaded) 38
 Circuits (maximum) 38
 Color - Resin Black
 Durability (mating cycles max) 100
 First Mate / Last Break No
 Flammability 94V-0
 Glow-Wire Compliant No
 Guide to Mating Part No
 Keying to Mating Part None
 Lock to Mating Part None
 Mated Height (in) 0.217 In
 Mated Height (mm) 5.50 mm
 Material - Metal Phosphor Bronze
 Material - Plating Mating Gold
 Material - Plating Termination Tin
 Material - Resin Nylon
 Number of Rows 2
 Orientation Vertical
 PC Tail Length (in) 0.102 In
 PC Tail Length (mm) 2.60 mm
 PCB Locator No
 PCB Retention None
 PCB Thickness Recommended (in) 0.062 In
 PCB Thickness Recommended (mm) 1.60 mm
 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) 15
 Plating min: Mating (µm) 0.38
 Polarized to Mating Part No
 Polarized to PCB No
 Shrouded No

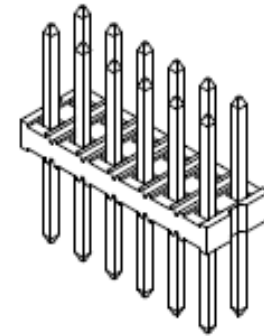


image - Reference only

Series

EU RoHS

ELV and RoHS Compliant
REACH SVHC Contains SVHC: No
Halogen-Free Status
Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email 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

[87758Series](#)

Mates With

[79107](#) Milli-Grid™ Receptacle, Vertical, Through Hole. [79108](#) Milli-Grid™ Flex-to-Board, Vertical Receptacle. Milli-Grid™ Receptacle, Surface Mount. [79109](#). [87381](#)

| | |
|--------------------------------|-----------------|
| Stackable | No |
| Surface Mount Compatible (SMC) | Yes |
| Temperature Range - Operating | -55°C to +105°C |
| Termination Interface: Style | Through Hole |

Electrical

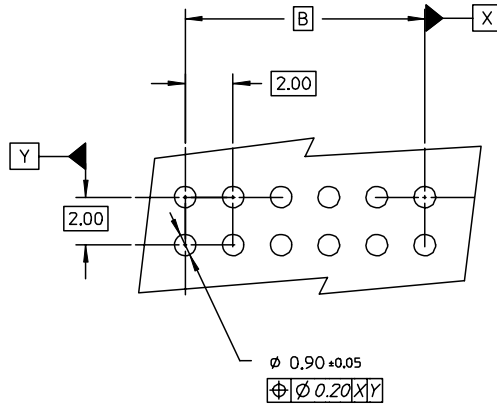
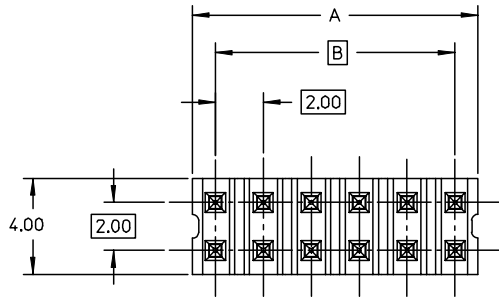
| | |
|-------------------------------|------|
| Current - Maximum per Contact | 2A |
| Voltage - Maximum | 125V |

Material Info**Reference - Drawing Numbers**

| | |
|-----------------------|--------------|
| Product Specification | PS-87761-100 |
| Sales Drawing | SD-87758-112 |

This document was generated on 05/25/2010

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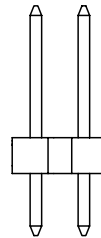
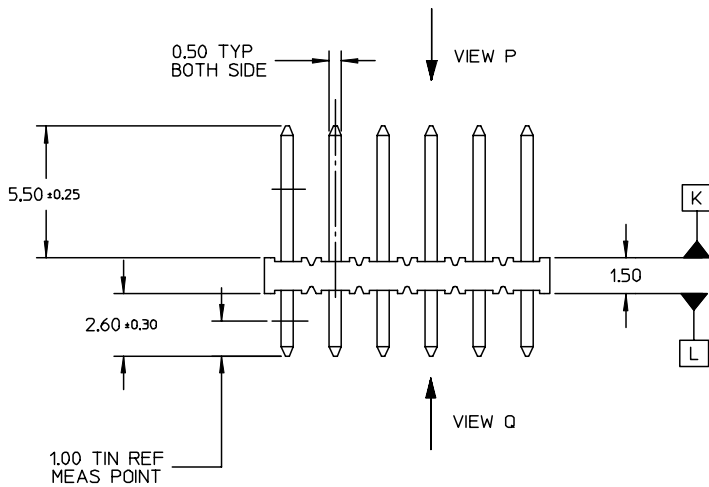


LEGEND

87758- ** 5 0
 CKT SIZE (SEE SHT 2 TABLE) PLATING (SEE NOTE 2)

NOTES:

1. MATERIAL:
 HOUSING: 30% G.F. NYLON 46, 94V-0, COLOR: BLACK
 PIN: 0.50mm SQ. PHOSPHOR BRONZE 510
2. PLATING:
 **50 - 0.38um MIN GOLD IN CONTACT AREA,
 TIN IN SOLDER AREA, BOTH OVER
 NICKEL OVERALL.
3. 12 CKT USED FOR ILLUSTRATION ONLY
4. PACKED IN POCKET TRAY
5. PIN PUSHOUT FORCE: 1KG MIN IN EITHER DIRECTION
6. CKT 4 AND 6 IS CUT FROM CKT 8 AND 12 RESPECTIVELY.
 CKT 2 ARE CUT FROM ANY LARGER CKT SIZE, ROUGH EDGES
 ARE EXPECTED ALONG THE CUTTING EDGES.
7. PRODUCT SPEC PS-87761-100 APPLIES.



$\phi 0.71 \pm 0.07$
 $\phi 0.30 \text{ @ } K$





VIEW P




$\phi 0.71 \pm 0.07$
 $\phi 0.30 \text{ @ } L$



VIEW Q

| | | | | | | | | |
|--|-------------|-----------------|---------------------------------------|-------|---|---------------------|---------------------------|---|
| EC NO: S2004-0215 DRWN:KSEE 2004/01/20 CHKD:KCLING 2004/01/20 APPR:SKTOH 2004/01/20 | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | | SCALE NTS | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | REVISE ON CAD ONLY |
| | | ▼ = 0 ▽ = 0 | mm | INCH | DIMENSION STYLE MM ONLY | TITLE | | |
| A | REV | | 4 PLACES | ± --- | ± --- | DRAWN BY KSEE | DATE 2003/10/30 | 2MM DUAL ROW SINGLE WAFER, VERTICAL THROUGH HOLE HEADER |
| | | | 3 PLACES | ± --- | ± --- | CHECKED BY KCLING | DATE 2004/01/05 | |
| | | | 2 PLACES | ± 0.2 | ± --- | APPROVED BY SKTOH | DATE 2004/01/05 | MATERIAL NO. SEE TABLE |
| | | | 1 PLACE | ± --- | ± --- | | DOCUMENT NO. SD-87758-112 | |
| | | | ANGULAR ± 3 ° | | DRAFT WHERE APPLICABLE | | SHEET NO. 1 OF 2 | |
| | | | MUST REMAIN WITHIN DIMENSIONS | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | |

| PART NUMBER | CKT SIZE | A | B |
|--|----------|-------|-------|
| 87758-0450  | 4 | NA | 2.00 |
| 87758-0650  | 6 | NA | 4.00 |
| 87758-0850 | 8 | 7.90 | 6.00 |
| 87758-1050 | 10 | 9.90 | 8.00 |
| 87758-1250 | 12 | 11.90 | 10.00 |
| 87758-1450 | 14 | 13.90 | 12.00 |
| 87758-1650 | 16 | 15.90 | 14.00 |
| 87758-1850 | 18 | 17.90 | 16.00 |
| 87758-2050 | 20 | 19.90 | 18.00 |
| 87758-2250 | 22 | 21.90 | 20.00 |
| 87758-2450 | 24 | 23.90 | 22.00 |
| 87758-2650 | 26 | 25.90 | 24.00 |
| 87758-2850 | 28 | 27.90 | 26.00 |
| 87758-3050 | 30 | 29.90 | 28.00 |
| 87758-3250 | 32 | 31.90 | 30.00 |
| 87758-3450 | 34 | 33.90 | 32.00 |
| 87758-3650 | 36 | 35.90 | 34.00 |
| 87758-3850 | 38 | 37.90 | 36.00 |
| 87758-4050 | 40 | 39.90 | 38.00 |
| 87758-4250 | 42 | 41.90 | 40.00 |
| 87758-4450 | 44 | 43.90 | 42.00 |
| 87758-4650 | 46 | 45.90 | 44.00 |
| 87758-4850 | 48 | 47.90 | 46.00 |
| 87758-5050 | 50 | 49.90 | 48.00 |

| EC NO: S2004-0215 DRWN:KSEE 2004/01/20 CHKD:KCLING 2004/01/20 APPR:SKTOH 2004/01/20 | DESCRIPTION REV: A | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | SCALE NTS | DESIGN UNITS METRIC |  THIRD ANGLE PROJECTION | REVISE ON CAD ONLY | | | | | | | | | | | | | | | | |
|--|------------------------|--|---|--------------|---|--|--------------------|-------|-------|----------|-------|-------|----------|-------|-------|---------|-------|-------|----------------------------|--|--|--|--|
| | |  = 0  = 0 | <table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </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>± 0.2</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> </table> | | mm | INCH | 4 PLACES | ± --- | ± --- | 3 PLACES | ± --- | ± --- | 2 PLACES | ± 0.2 | ± --- | 1 PLACE | ± --- | ± --- | DIMENSION STYLE MM ONLY | | TITLE 2MM DUAL ROW SINGLE WAFER, VERTICAL THROUGH HOLE HEADER | | |
| | | | | mm | INCH | | | | | | | | | | | | | | | | | | |
| | | | 4 PLACES | ± --- | ± --- | | | | | | | | | | | | | | | | | | |
| 3 PLACES | ± --- | ± --- | | | | | | | | | | | | | | | | | | | | | |
| 2 PLACES | ± 0.2 | ± --- | | | | | | | | | | | | | | | | | | | | | |
| 1 PLACE | ± --- | ± --- | | | | | | | | | | | | | | | | | | | | | |
| ANGULAR ± 3 ° | DRAFT WHERE APPLICABLE | | DRAWN BY: KSEE DATE: 2003/10/30 CHECKED BY: KCLING DATE: 2004/01/05 APPROVED BY: SKTOH DATE: 2004/01/05 | | MATERIAL NO. SEE TABLE DOCUMENT NO. SD-87758-112 SHEET NO. 2 OF 2 | | | | | | | | | | | | | | | | | | |
| MUST REMAIN WITHIN DIMENSIONS | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | | | | | | | | | | | | | |