

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: **0877581050**
Status: **Active**
Overview: milligrid
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Through Hole, Vertical, 10 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating, Tray Packaging, Lead-free

Documents:

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

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) 10
 Circuits (maximum) 10
 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

Solder Process Data

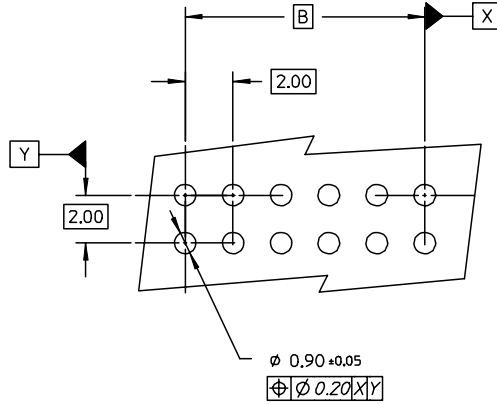
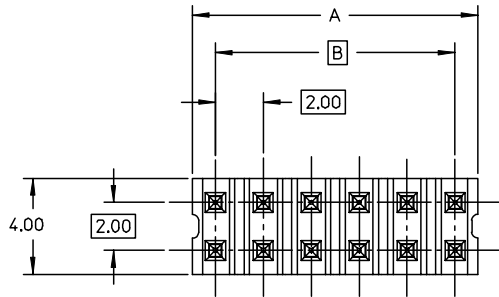
Duration at Max. Process Temperature (seconds)	3
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	250

Material Info**Reference - Drawing Numbers**

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

This document was generated on 05/25/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

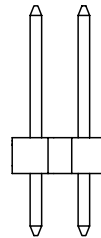
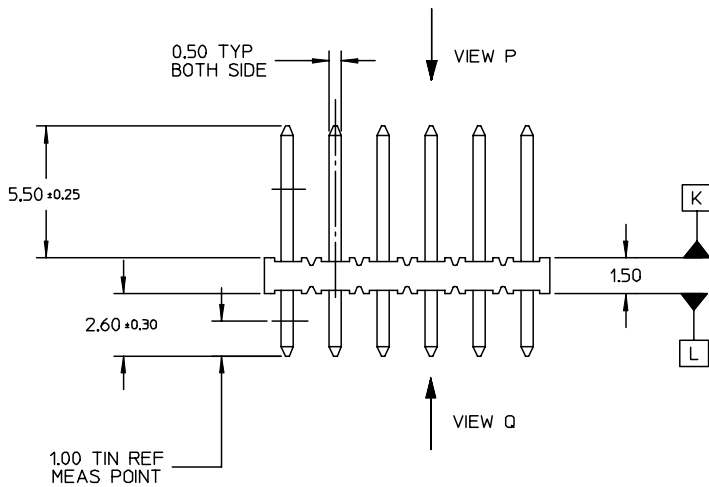


LEGEND

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	SHEET NO. 1 OF 2	
			ANGULAR ± 3 °		MOLEX MOLEX INCORPORATED			
			DRAFT WHERE APPLICABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
			MUST REMAIN WITHIN DIMENSIONS		B			

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	± ---	± ---	<table border="1"> <tr> <th colspan="2">DIMENSION STYLE</th> </tr> <tr> <td colspan="2">MM ONLY</td> </tr> </table>	DIMENSION STYLE		MM ONLY		TITLE
				mm	INCH																			
			4 PLACES	± ---	± ---																			
3 PLACES	± ---	± ---																						
2 PLACES	± 0.2	± ---																						
1 PLACE	± ---	± ---																						
DIMENSION STYLE																								
MM ONLY																								
DRAFT WHERE APPLICABLE	DRAWN BY: KSEE DATE: 2003/10/30 CHECKED BY: KCLING DATE: 2004/01/05 APPROVED BY: SKTOH DATE: 2004/01/05	2MM DUAL ROW SINGLE WAFER, VERTICAL THROUGH HOLE HEADER  MOLEX INCORPORATED	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		B																					