

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0877584650](#)
Status: **Active**
Overview: [milligrid](#)
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Through Hole, Vertical, 46 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) 46
Circuits (maximum) 46
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

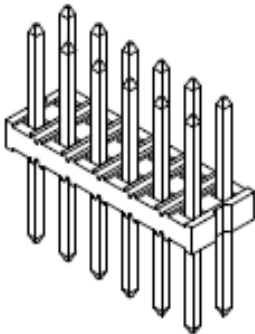


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**
**REACH SVHC
Contains SVHC: No**
**Halogen-Free
Status**

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

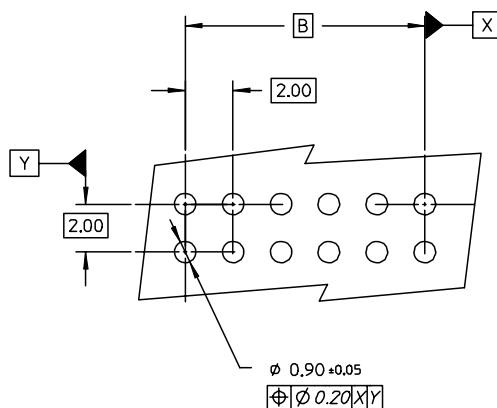
Material Info

Reference - Drawing Numbers

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

This document was generated on 05/25/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



LEGEND

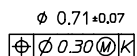
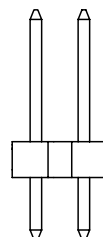
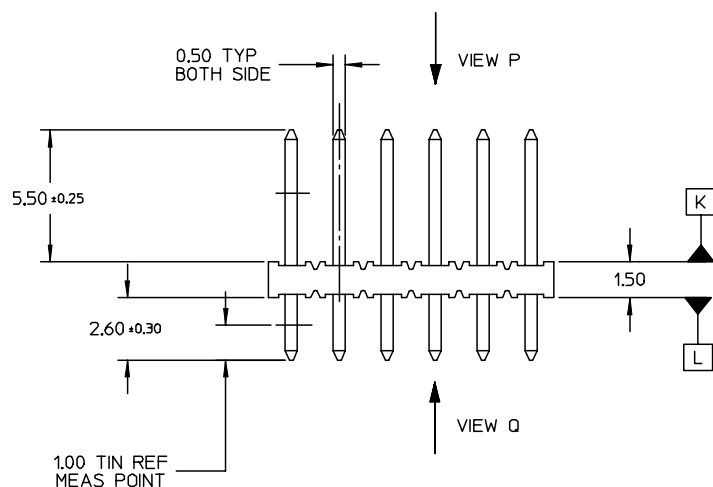
87758- * * 5 0

CKT SIZE (SEE SHT 2 TABLE)

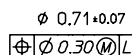
PLATING (SEE NOTE 2)

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.



VIEW P



VIEW Q

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

	10	9		8		7	6	5	4	3	2		87758																	
F	PART NUMBER	CKT SIZE	A	B											F															
	87758-0450 	4	NA	2.00																										
	87758-0650 	6	NA	4.00																										
E	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																										
D	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																										
C	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																										
B	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																										
A	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	QUALITY SYMBOLS  = 0  = 0	GENERAL TOLERANCES (UNLESS SPECIFIED) <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>± 0.2</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr><tr><td colspan="3">ANGULAR ± 3 °</td></tr></table> DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.2	± ---	1 PLACE	± ---	± ---	ANGULAR ± 3 °			SCALE NTS DESIGN UNITS METRIC DIMENSION STYLE MM ONLY DRAWN BY KSEE DATE 2003/10/30 CHECKED BY KCLING DATE 2004/01/05 APPROVED BY SKTOH DATE 2004/01/05	 THIRD ANGLE PROJECTION REVISE ON CAD ONLY TITLE 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	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			B
	mm	INCH																												
4 PLACES	± ---	± ---																												
3 PLACES	± ---	± ---																												
2 PLACES	± 0.2	± ---																												
1 PLACE	± ---	± ---																												
ANGULAR ± 3 °																														
tb_frame_B rev. B1 2000/08/01					6	5	4	3	2	1																				