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Part Number: [0877581616](#)
Status: **Active**
Overview: [milligrid](#)
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Through Hole, Vertical, 16 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating, Pocket 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) 16
Circuits (maximum) 16
Color - Resin Black
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) 0.157 In
Mated Height (mm) 4.00 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) 0.063 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
Stackable No

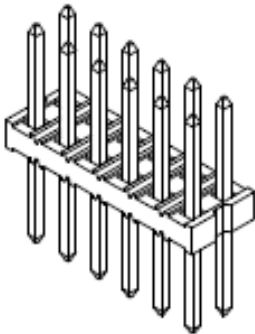


image - Reference only

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](#)

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

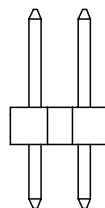
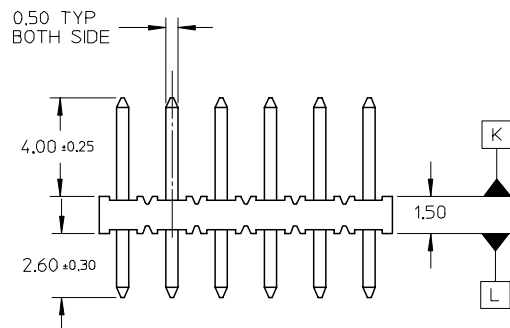
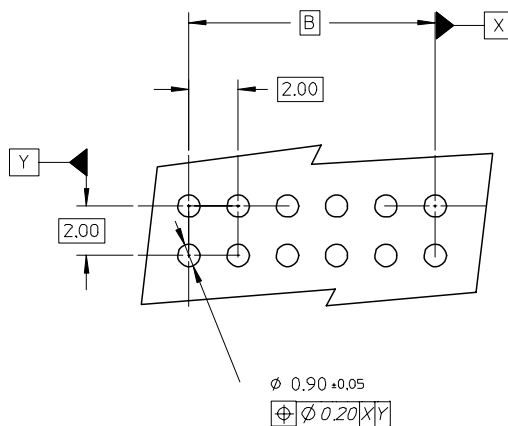
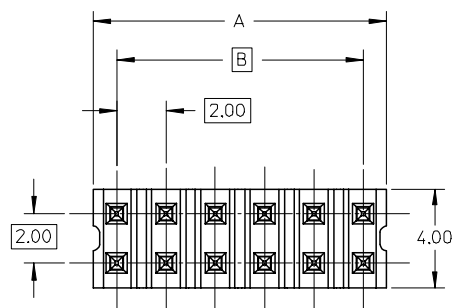
Material Info

Reference - Drawing Numbers

Product Specification	PS-87761-100
Sales Drawing	SD-87758-107

This document was generated on 05/25/2010

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LEGEND
87758- * * * *
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:

**16 - 0.38um MIN GOLD IN CONTACT AREA.
TIN IN SOLDER AREA, BOTH OVER
NICKEL OVERALL.
**17 - 0.76um MIN GOLD IN CONTACT AREA.
TIN IN SOLDER AREA, BOTH OVER
NICKEL OVERALL.
**18 - 2.54um MIN TIN 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.

8. RECOMMENDED PCB THICKNESS IS 1.60 ± 0.10

0.71 ± 0.07
0.30 ± 0.05



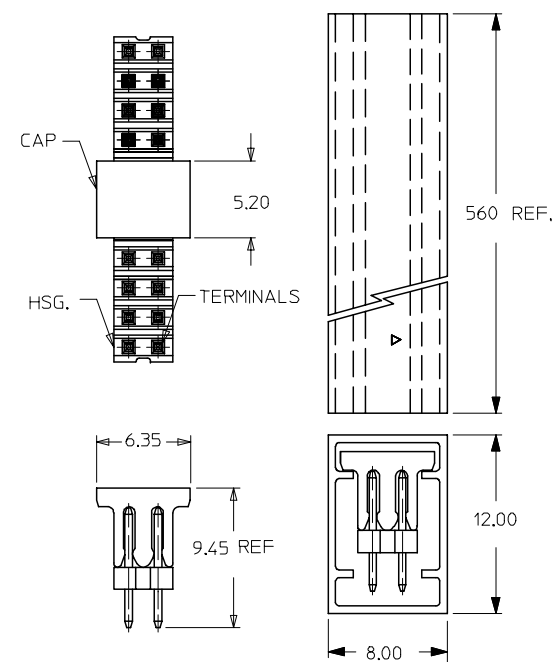
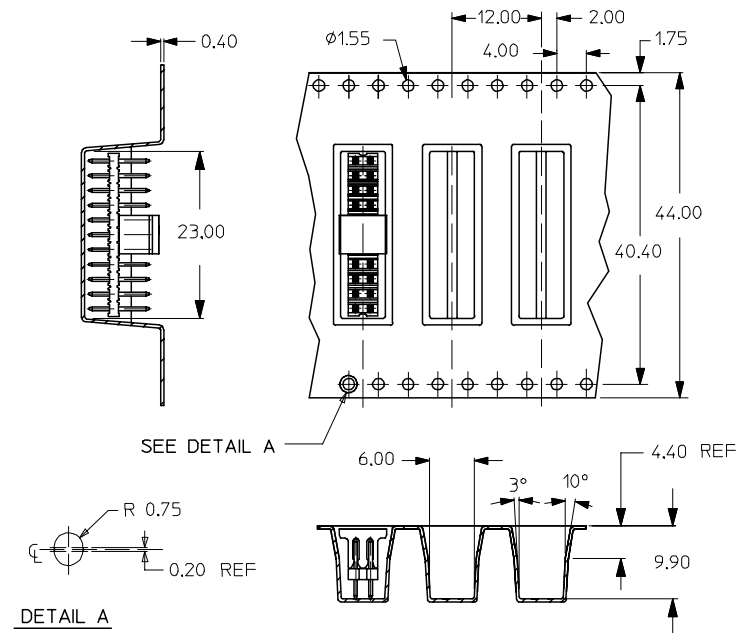
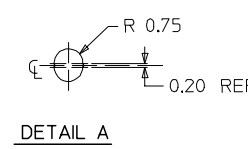
VIEW P

0.71 ± 0.07
0.30 ± 0.05



VIEW Q

QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
				MM ONLY		NTS	METRIC		
				mm	INCH				
▽=0		4 PLACES		± ---	± ---	DRAWN BY		DATE	
▽C=0		3 PLACES		± ---	± ---	KSEE		2003/10/30	
		2 PLACES		± 0.20	± ---	CHECKED BY		DATE	
		1 PLACE		± ---	± ---	KCL ING		2004/01/05	
				ANGULAR ± 3 °		APPROVED BY		DATE	
						SKTOH		2004/01/05	
						MATERIAL NO.		DOCUMENT NO.	
						SEE TABLE		SD-87758-107	
						SIZE		SHEET NO.	
						A3		1 OF 2	

	10	9	8	7	6	5	4	3	2	1												
F	PART NUMBER	CKT SIZE	A	B	<table><tr><td>CKT SIZE</td><td>PART NO. WITH CAP IN TUBE</td><td>PART NO. WITH CAP IN TAPE/REEL</td><td>PLATING TYPE</td></tr><tr><td>8</td><td>87758-0814</td><td>87758-0815</td><td>**16</td></tr><tr><td>22</td><td>87758-5126</td><td>87758-5111</td><td>MOLEX INC.</td></tr></table>						CKT SIZE	PART NO. WITH CAP IN TUBE	PART NO. WITH CAP IN TAPE/REEL	PLATING TYPE	8	87758-0814	87758-0815	**16	22	87758-5126	87758-5111	MOLEX INC.
	CKT SIZE	PART NO. WITH CAP IN TUBE	PART NO. WITH CAP IN TAPE/REEL	PLATING TYPE																		
	8	87758-0814	87758-0815	**16																		
	22	87758-5126	87758-5111	MOLEX INC.																		
	87758-02** 	2	NA	NA	WITH CAP IN TUBE (22 CKT SHOWN FOR MOLEX INC.)  WITH CAP IN TAPE/REEL (22 CKT SHOWN FOR MOLEX INC.)  DETAIL A 																	
87758-04** 	4	NA	2.00																			
87758-06** 	6	NA	4.00																			
87758-08**	8	7.90	6.00																			
E	87758-10**	10	9.90	8.00																		
	87758-12**	12	11.90	10.00																		
	87758-14**	14	13.90	12.00																		
	87758-16**	16	15.90	14.00																		
	87758-18**	18	17.90	16.00																		
D	87758-20**	20	19.90	18.00																		
	87758-22**	22	21.90	20.00																		
	87758-24**	24	23.90	22.00																		
	87758-26**	26	25.90	24.00																		
	87758-28**	28	27.90	26.00																		
C	87758-30**	30	29.90	28.00																		
	87758-32**	32	31.90	30.00																		
	87758-34**	34	33.90	32.00																		
	87758-36**	36	35.90	34.00																		
	87758-38**	38	37.90	36.00																		
B	87758-40**	40	39.90	38.00																		
	87758-42**	42	41.90	40.00																		
	87758-44**	44	43.90	42.00																		
	87758-46**	46	45.90	44.00																		
	87758-48**	48	47.90	46.00																		
A	87758-50**	50	49.90	48.00																		

EC NO: S2005-0715 DRWN:KCHO CHKD:PTLIM APPR:SCLOW	2005/05/16 2005/05/18 2005/05/19	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
			4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm ± --- ± 0.20 ± ---	INCH ± --- ± --- ± --- ± ---	DRAWN BY KSEE	DATE 2003/10/30	TITLE SALES DRAWING 2MM DUAL ROW SINGLE WAFER, VERTICAL T/H HDR MOLEX INCORPORATED		
				ANGULAR ± 3 °		CHECKED BY KCL ING	DATE 2004/01/05			
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY SKTOH	DATE 2004/01/05			
SIZE A3				MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87758-107		SHEET NO. 2 OF 2		

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