

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0877601016](#)
Status: **Active**
Overview: [milligrd](#)
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Right Angle, Through Hole, 10 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating, Tray, Lead-free

Documents:

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

Agency Certification

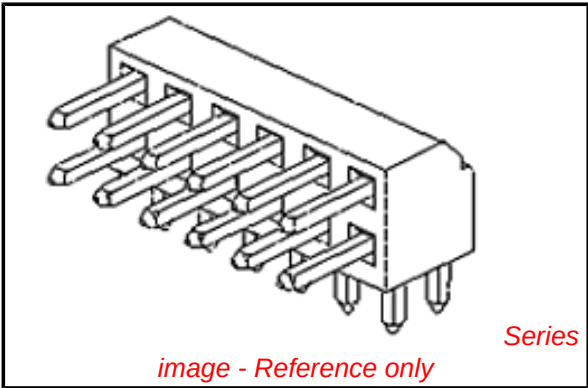
CSA LR19980
UL E29179

General

Product Family PCB Headers
Series [87760](#)
Application Board-to-Board, Wire-to-Board
Comments Lead-free version of 87049 series
Overview [milligrd](#)
Product Name Milli-Grid™

Physical

Breakaway No
Circuits (Loaded) 10
Circuits (maximum) 10
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 High Temperature Thermoplastic
Number of Rows 2
Orientation Right Angle
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
Plating min: Termination (µin) 76.4
Plating min: Termination (µm) 1.91



EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Halogen-Free

**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.

China RoHS



Search Parts in this Series

[87760Series](#)

Mates With

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

Polarized to Mating Part	No
Polarized to PCB	No
Shrouded	No
Stackable	Yes
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)	14
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	265

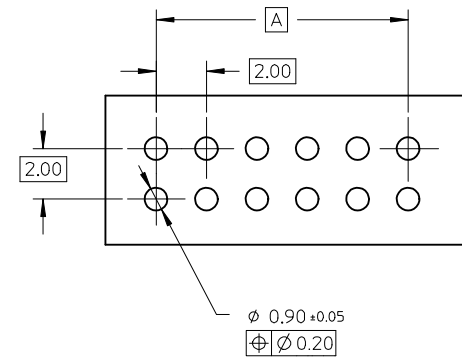
Material Info

Reference - Drawing Numbers

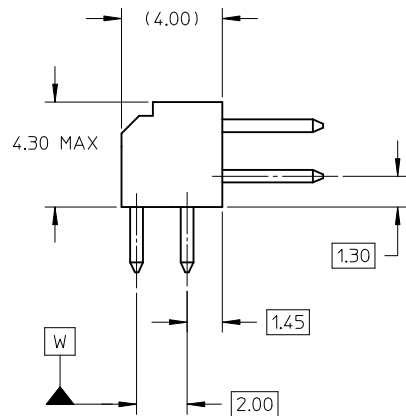
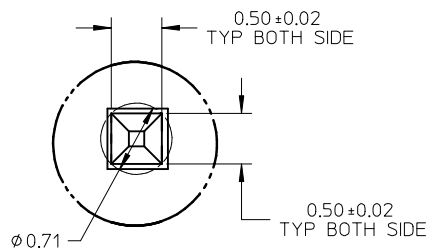
Product Specification	PS-87761-100
Sales Drawing	SD-87760-109

This document was generated on 05/26/2010
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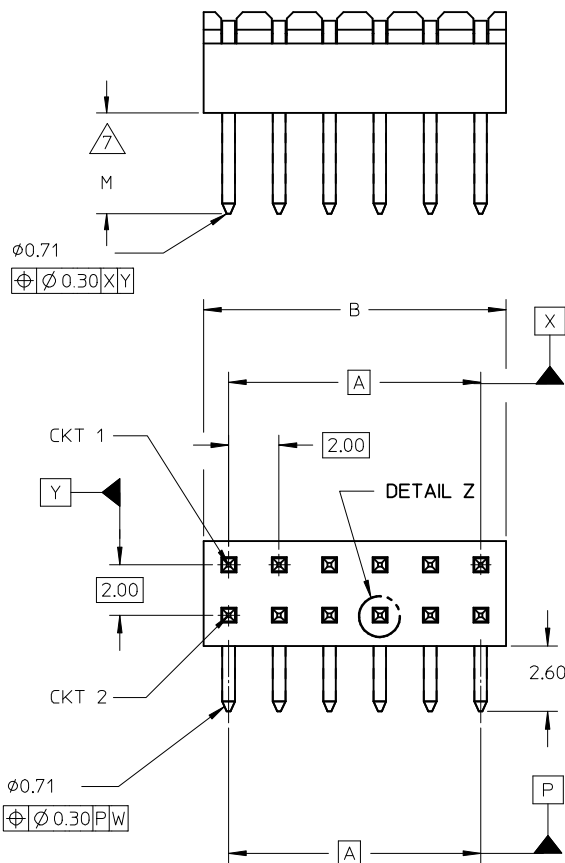
10 9 8 7 6 5 4 3 2 1



RECOMMENDED PCB LAYOUT



DETAIL Z



NOTES:

1. MATERIAL:

HSG: PCT, 30% GLASS FILLED,UL 94V-0,
COLOUR BLACK.

PIN: 0.50MM SQ PHOSPHOR BRONZE 510

2. PLATING:

***6 - 0.38um MIN GOLD IN CONTACT AREA,
1.90um MIN TIN IN SOLDER TAIL AREA, BOTH OVER
1.27um MIN NICKEL OVERALL

***7 - 0.76um MIN GOLD IN CONTACT AREA,
1.90um MIN TIN IN SOLDER TAIL AREA, BOTH OVER
1.27um MIN NICKEL OVERALL

***8 - 2.54um MIN TIN OVER
1.27um MIN NICKEL OVERALL

3. 12 CKT USED FOR ILLUSTRATION ONLY

4. PART TO BE PACKED IN POCKET TRAY/TUBE (SEE TABLE).

5. PRODUCT SPEC PS-87761-100 APPLIES.

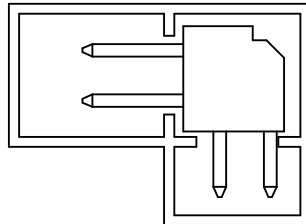
6. RECOMMENDED PCB BOARD THK 1.60±0.10 MM.

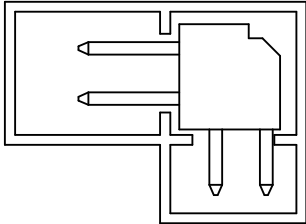
7. MATING LENGTH: 1 - 4.00MM
2 - 3.50MM
3 - 3.06MM
4 - 5.75MM

LEGEND:

87760 - * * * *
(SEE SHT 3) ——— PLATING OPTION (SEE NOTE 2)
————— MATING OPTION

0047-DW-SIRIUS EC NO: S2010-0177 DRWN:SKANG CHKD:ATSEE APPR:MLONG REV A11	DESCRIPTION	QUALITY SYMBOLS <div>▽=0</div> <div>◻=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION					
				mm	INCH	DRAWN BY KSEE	DATE 2003/10/15	TITLE MGRID, 2MM DUAL ROW HDR. R/A						
			4 PLACES	± ---	± ---	CHECKED BY KCLING	DATE 2003/12/02							
			3 PLACES	± ---	± ---	APPROVED BY SKTOH		DATE 2003/12/11		MOLEX INCORPORATED				
			2 PLACES	± 0.2	± ---									
			1 PLACE	± ---	± ---	MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87760-109						
			ANGULAR ± 3 °											
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
					SHEET NO. 1 OF 2									

	10	9	8	7	6	5	4	3	2	1	
	PART NUMBER	VOID PIN LOCATION	CKT SIZE	A	B	M	PACKAGING TYPE				
F	87760-04**	-	04	2.00	4.00	REFER TO NOTE 7.	TRAY	<div></div> <p>PART IN TUBE</p>			
	87760-06**	-	06	4.00	6.00						
	87760-08**	-	08	6.00	8.00						
	87760-10**	-	10	8.00	10.00						
E	87760-12**	-	12	10.00	12.00						
	87760-14**	-	14	12.00	14.00						
	87760-16**	-	16	14.00	16.00						
	87760-18**	-	18	16.00	18.00						
D	87760-20**	-	20	18.00	20.00						
	87760-22**	-	22	20.00	22.00						
	87760-24**	-	24	22.00	24.00						
	87760-26**	-	26	24.00	26.00						
C	87760-28**	-	28	26.00	28.00						
	87760-30**	-	30	28.00	30.00						
	87760-32**	-	32	30.00	32.00						
	87760-34**	-	34	32.00	34.00						
B	87760-36**	-	36	34.00	36.00						
	87760-38**	-	38	36.00	38.00						
	87760-40**	-	40	38.00	40.00						
	87760-42**	-	42	40.00	42.00						
	87760-44**	-	44	42.00	44.00						
	87760-46**	-	46	44.00	46.00						
	87760-48**	-	48	46.00	48.00						
	87760-50**	-	50	48.00	50.00						
	87760-5116	5, 6 & 26	50	48.00	50.00						
	87760-5248	-	28	26.00	28.00	TUBE					



PART IN TUBE

0047-DW-SIRIUS			EC NO: S2010-0177			DRWN:SKANG 2009/10/21			CHKD:ATSEE 2009/10/22			APPR:MLONG 2009/10/23			DESCRIPTION			QUALITY SYMBOLS			GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY			SCALE NTS			DESIGN UNITS METRIC			THIRD ANGLE PROJECTION					
A11			REV			▽=0 ▽=0			mm			INCH			DRAWN BY			DATE			TITLE MGRID, 2MM DUAL ROW HDR. R/A			MOLEX MOLEX INCORPORATED			SHEET NO. 2 OF 2											
															4 PLACES			± ---												± ---			KSEE			2003/10/15		
															3 PLACES			± ---												± ---			CHECKED BY			DATE		
															2 PLACES			± 0.2												± ---			KCLING			2003/12/02		
															1 PLACE			± ---												± ---			APPROVED BY			DATE		
A11			REV			▽=0 ▽=0			mm			INCH			ANGULAR ± 3 °			SKTOH			2003/12/11			MATERIAL NO.			DOCUMENT NO.			SD-87760-109								
															DRAFT WHERE APPLICABLE			SEE TABLE			SIZE			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
															MUST REMAIN WITHIN DIMENSIONS			A3																				