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Part Number: [0877591251](#)
Status: **Active**
Overview: [Milli-Grid™](#)
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, 12 circuits, 0.38µm (30µ") Gold (Au) Selective Plating, with Press-fit Plastic Pegs, Lead-free

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

Agency Certification

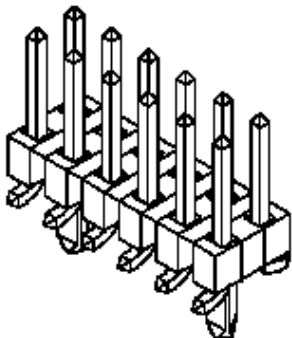
UL E29179

General

Product Family PCB Headers
Series [87759](#)
Application Board-to-Board
Overview [Milli-Grid™](#)
Product Name Milli-Grid™

Physical

Breakaway Yes
Circuits (Loaded) 12
Circuits (maximum) 12
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) 0.150 In
Mated Height (mm) 3.80 mm
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
Number of Rows 2
Orientation Vertical
PCB Locator Yes
PCB Retention None
Packaging Type Tube
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) 30
Plating min: Mating (µm) 0.76
Polarized to Mating Part No
Polarized to PCB No
Shrouded No
Stackable Yes
Temperature Range - Operating -55°C to +105°C
Termination Interface: Style Surface Mount



Series
image - Reference only

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
[87759Series](#)

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

Electrical

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

Solder Process Data

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

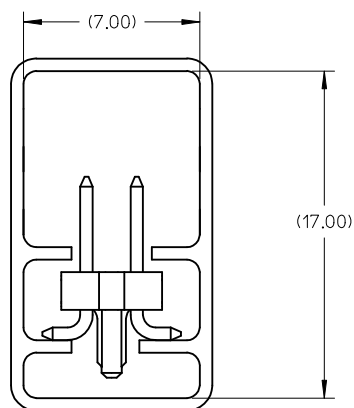
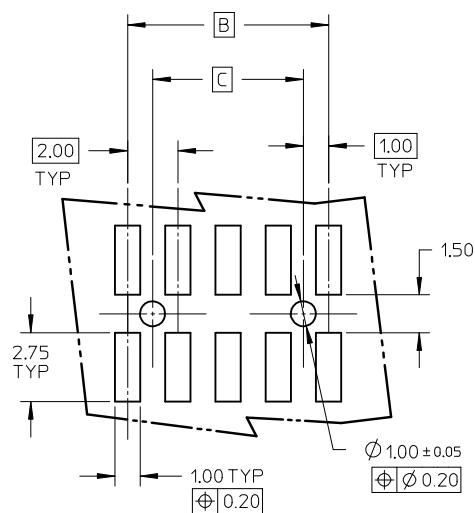
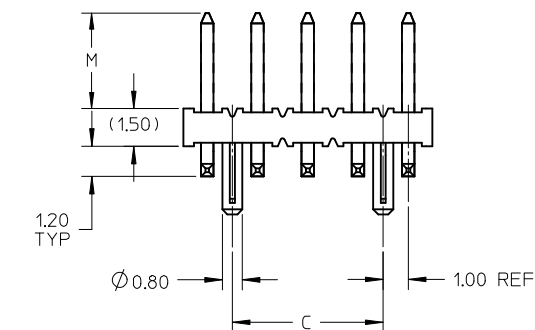
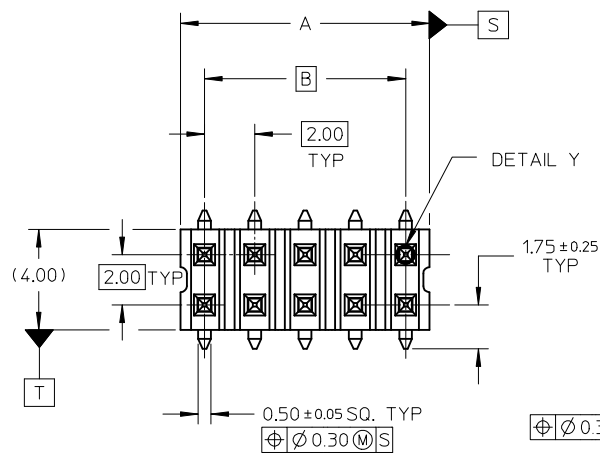
Material Info

Reference - Drawing Numbers

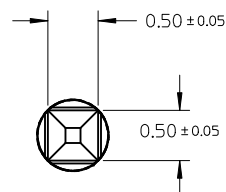
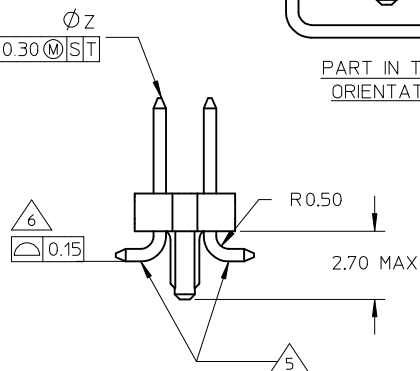
Packaging Specification	PK-89990-475
Product Specification	PS-87761-100
Sales Drawing	SD-87759-113

This document was generated on 05/17/2010

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PART IN TUBE
ORIENTATION



DETAIL Y

NOTE:

1. MATERIAL:

HSG - HIGH TEMPERATURE THERMOPLASTIC,
UL 94V-0, COLOUR BLACK

PIN - 0.50 SQ PHOSPHOR BRONZE

2. PLATING:

**50 / **52 - 0.38um MIN GOLD PLATE AT CONTACT AREA,
TIN PLATE AT SOLDER AREA,

BOTH OVER NICKEL UNDERPLATE

**51 - 0.76um MIN GOLD PLATE AT CONTACT AREA,
TIN PLATE AT SOLDER AREA,

BOTH OVER NICKEL UNDERPLATE

(** - REPRESENTS DIFFERENT CKT SIZE, SEE TABLE AT SHT 2)

3. PIN PUSHOUT FORCE: 1KG MIN IN EITHER DIRECTION

4. PRODUCT SPEC PS-87761-100 APPLIES.

5 BEND DEPRESSION IS ACCEPTABLE SO LONG AS IT DOES NOT
AFFECT THE OVERALL COPLANARITY OF TAIL.

6 COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL
ON A FLAT SURFACE.

7. FOR ILLUSTRATION PURPOSES, 10CKT IS SHOWN

8. TUBE LENGTH IS 560MM REF STANDARD.

9. RECOMMENDED PCB BOARD THK IS 1.60 ± 0.10 MM.

PDR#S-001876-00-00				QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION			
EC NO: S2009-0182 2008/09/24 DRWN:SKANG CHKD:ATSEE 2008/09/24 APPR:MLONG 2008/09/25				▽=0 ▽=0 DESCRIPTION		mm		INCH		DRAWN BY KSEE		DATE 2003/12/24		TITLE CUSTOM HEADER MGRID, 2MM DUAL ROW HDR WITH PEG, SMT	
						4 PLACES		± --- ± ---		CHECKED BY KCLING		DATE 2004/01/12			
						3 PLACES		± --- ± ---		APPROVED BY SKTOH		DATE 2004/01/12			
						2 PLACES		± 0.2 ± ---							
						1 PLACE		± --- ± ---							
B1				REV		ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87759-113		1 OF 2			
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

	10	9			8			7	6	5	4	3	2	1				
F	PART NUMBER WITHOUT CAP IN TUBE	CKT SIZE	A	B	C	M										F		
	87759-0850/0851	08	7.90	6.00	4.00	3.80												
	87759-0852	08	7.90	6.00	4.00	9.60												
	87759-1050/1051	10	9.90	8.00	6.00	3.80												
E	87759-1250/1251	12	11.90	10.00	8.00	3.80										E		
	87759-1450/1451	14	13.90	12.00	10.00	3.80												
	87759-1650/1651	16	15.90	14.00	12.00	3.80												
	87759-1850/1851	18	17.90	16.00	14.00	3.80												
D	87759-2050/2051	20	19.90	18.00	16.00	3.80										D		
	87759-2250/2251	22	21.90	20.00	18.00	3.80												
	87759-2450/2451	24	23.90	22.00	20.00	3.80												
	87759-2650/2651	26	25.90	24.00	22.00	3.80												
	87759-2850/2851	28	27.90	26.00	24.00	3.80												
	87759-3050/3051	30	29.90	28.00	26.00	3.80												
	87759-3250/3251	32	31.90	30.00	28.00	3.80												
	87759-3450/3451	34	33.90	32.00	30.00	3.80												
C	87759-3650/3651	36	35.90	34.00	32.00	3.80										C		
	87759-3850/3851	38	37.90	36.00	34.00	3.80												
	87759-4050/4051	40	39.90	38.00	36.00	3.80												
	87759-4250/4251	42	41.90	40.00	38.00	3.80												
	87759-4450/4451	44	43.90	42.00	40.00	3.80												
	87759-4650/4651	46	45.90	44.00	42.00	3.80												
	87759-4850/4851	48	47.90	46.00	44.00	3.80												
	87759-5050/5051	50	49.90	48.00	46.00	3.80												
B															B			
A															A			
tb_frame_A3_P_AM_T Rev. E 2006/04/15		9		8		7		6		5		4		3		2		1

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				mm	INCH	DRAWN BY	DATE	TITLE	CUSTOM HEADER MGRID, 2MM DUAL ROW HDR WITH PEG, SMT MOLEX INCORPORATED	DOCUMENT NO. SD-87759-113	SHEET NO. 2 OF 2	
			4 PLACES	± ---	± ---	KSEE	2003/12/24					
			3 PLACES	± ---	± ---	CHECKED BY	DATE					
			2 PLACES	± 0.2	± ---	KCLING	2004/01/12					
			1 PLACE	± ---	± ---	APPROVED BY	DATE					
			ANGULAR ± 3 °			SKTOH	2004/01/12					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO. SEE TABLE						
						SIZE A3			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
			B1									