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Part Number: [0877594851](#)
Status: **Active**
Overview: [milligrid](#)
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, 48 Circuits, 0.38μm (30μ") Gold (Au) Selective Plating, without Press-fit Plastic Pegs, Lead-free

Documents:

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

Agency Certification

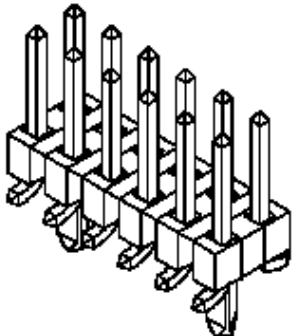
UL	E29179
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General

Product Family	PCB Headers
Series	87759
Application	Board-to-Board
Overview	milligrid
Product Name	Milli-Grid™

Physical

Breakaway	Yes
Circuits (Loaded)	48
Circuits (maximum)	48
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**

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

Lead-free Process Capability	Reflow Capable (SMT only)
Process Temperature max. C	250

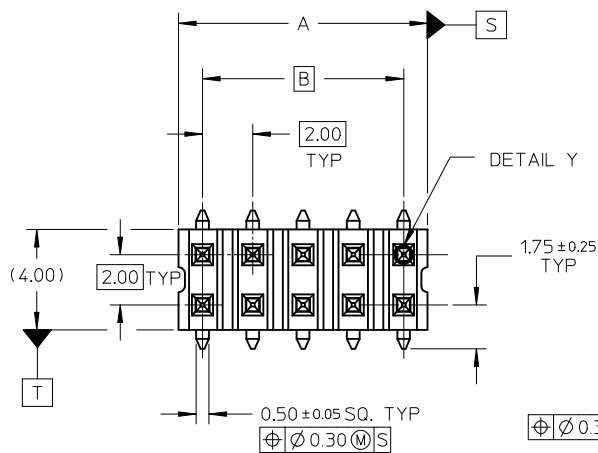
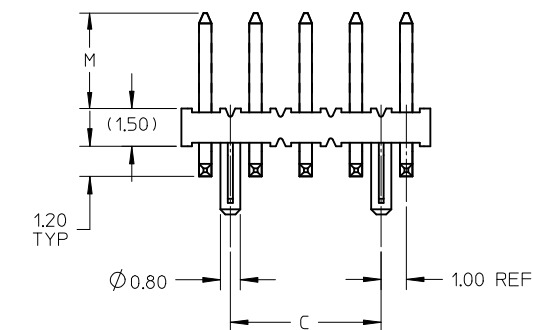
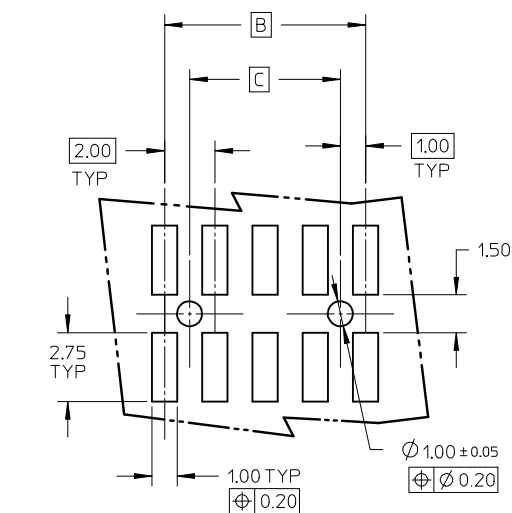
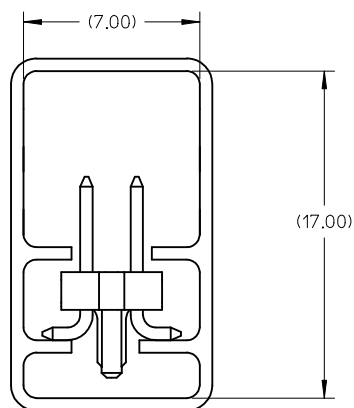
Material Info

Reference - Drawing Numbers

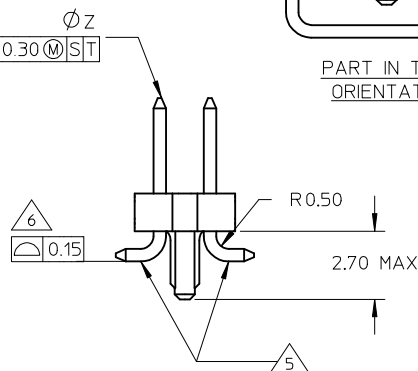
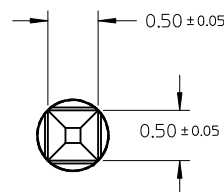
Packaging Specification	PK-89990-475
Product Specification	PS-87761-100
Sales Drawing	SD-87759-113

This document was generated on 05/25/2010

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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 EC NO: S2009-0182 2008/09/24 DRWN:SKANG CHKD:ATSEE 2008/09/24 APPR:MLONG 2008/09/25				QUALITY SYMBOLS ▽=0 ◇=0	DESCRIPTION	REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		mm	INCH				DRAWN BY KSEE		DATE 2003/12/24	TITLE CUSTOM HEADER MGRID, 2MM DUAL ROW HDR WITH PEG, SMT				
							CHECKED BY KCLING		DATE 2004/01/12					
4 PLACES		± ---	± ---				APPROVED BY SKTOH		DATE 2004/01/12	molex MOLEX INCORPORATED				
3 PLACES		± ---	± ---				MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87759-113					
2 PLACES		± 0.2	± ---											
1 PLACE		± ---	± ---											
		ANGULAR ± 3 °												
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS												
B1		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									
	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									
	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									
C	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									
B	87759-3650/3651	36	35.90	34.00	32.00	3.80									
	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									
A	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									
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