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Part Number:

0877594050

Status:

Active

Overview:

milligrid

Description:

2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, 40 Circuits, 0.38μm (15μ") 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

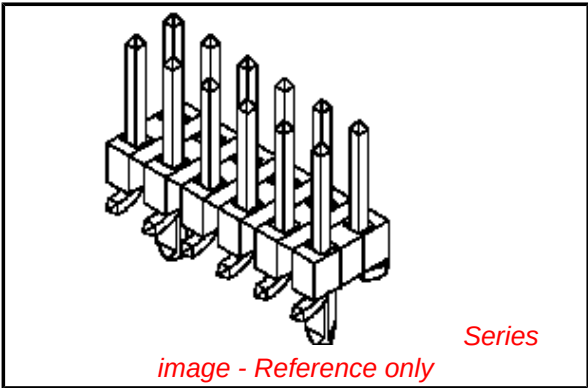
UL	E29179
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General

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

Physical

Breakaway	Yes
Circuits (Loaded)	40
Circuits (maximum)	40
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)	15
Plating min: Mating (μm)	0.38
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



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

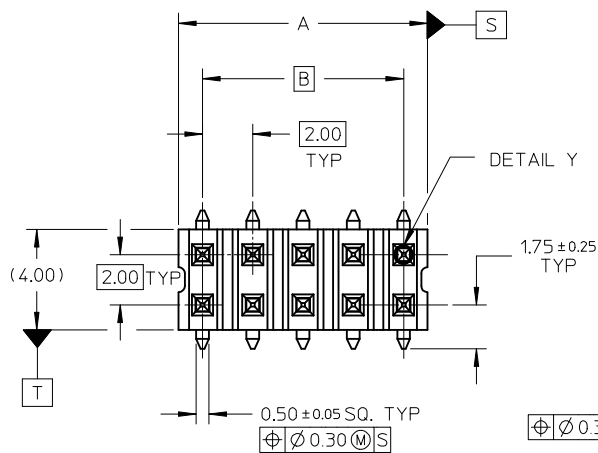
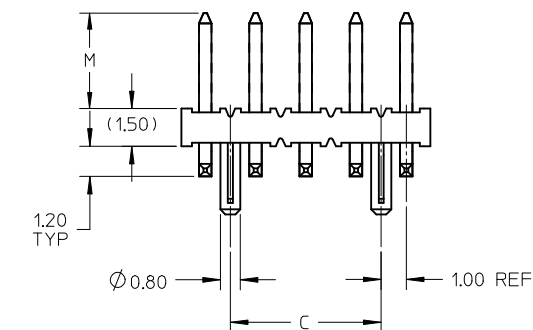
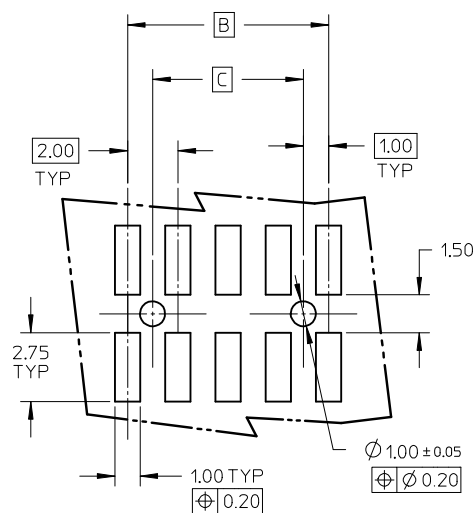
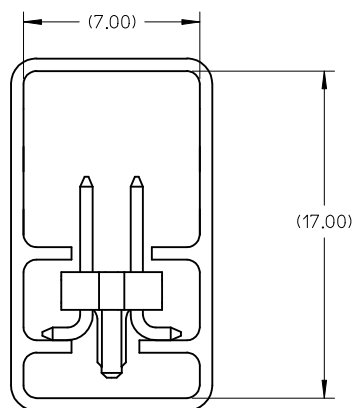
Material Info

Reference - Drawing Numbers

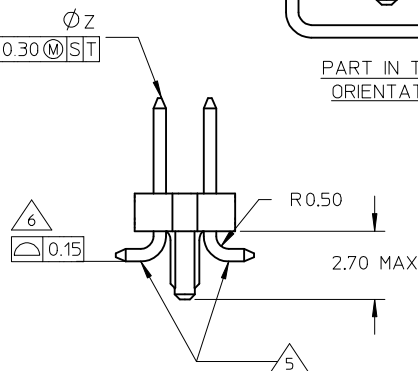
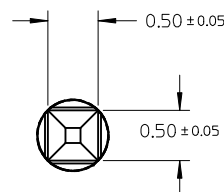
Packaging Specification	PK-89990-475
Product Specification	PS-87761-100
Sales Drawing	SD-87759-113

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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 DATE		TITLE CUSTOM HEADER MGRID, 2MM DUAL ROW HDR WITH PEG, SMT						
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		molex		MOLEX INCORPORATED							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO.		DOCUMENT NO.				SHEET NO.					
				SEE TABLE		SD-87759-113				1 OF 2					
B1				A3		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								