

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0877593651

Status:

Active

Overview:

milligrid

Description:

2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, 36 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

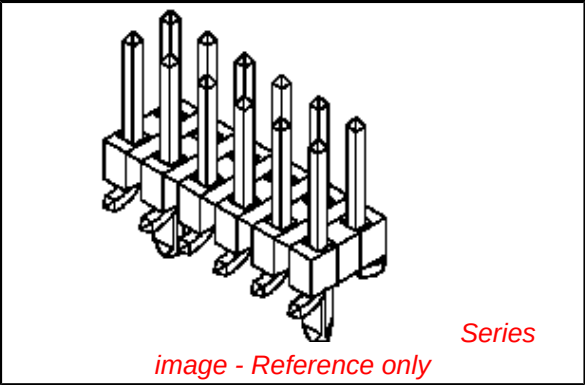
UL	E29179
----	--------

General

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

Physical

Breakaway	Yes
Circuits (Loaded)	36
Circuits (maximum)	36
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



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

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

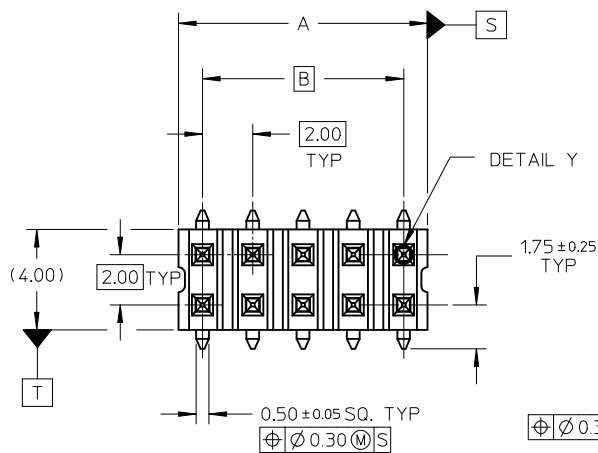
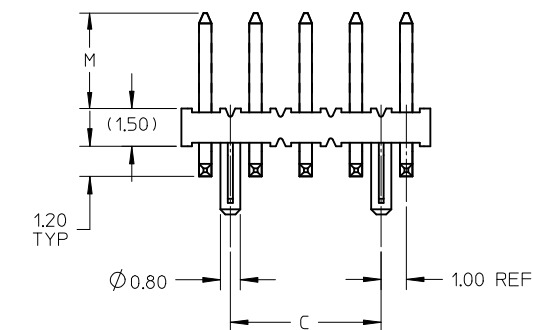
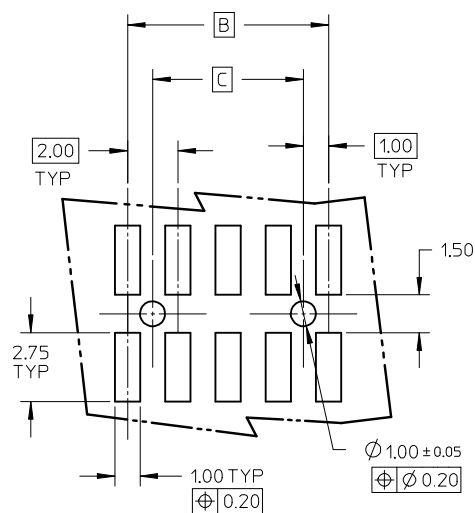
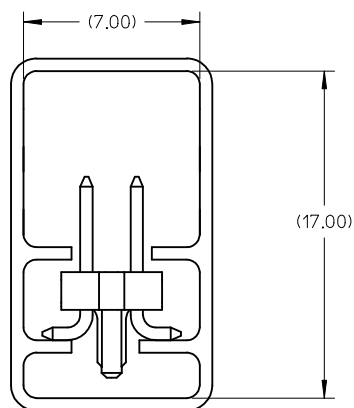
Material Info

Reference - Drawing Numbers

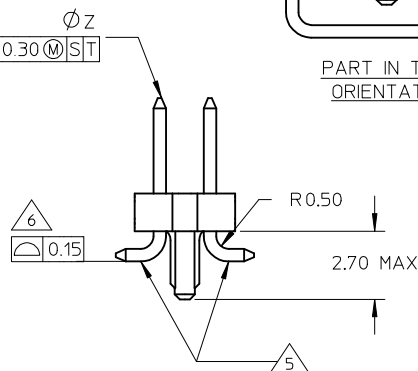
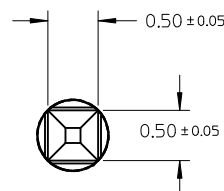
Packaging Specification	PK-89990-475
Product Specification	PS-87761-100
Sales Drawing	SD-87759-113

This document was generated on 05/25/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



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			
DRWN:SKANG CHKD:ATSEE APPR:MLONG 2008/09/24 2008/09/24 2008/09/25				 =0  =0		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		SEE TABLE		SD-87759-113		1 OF 2			
						MUST REMAIN		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
						WITHIN DIMENSIONS									

	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								
PDR#S-001876-00-00 EC NO: S2009-0182 DRWN:SKANG CHKD:ATSEE APPR:MLONG		2008/09/24 2008/09/24 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		
4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.2 ± --- 1 PLACE ± --- ± ---		mm INCH				DRAWN BY DATE KSEE 2003/12/24		TITLE CUSTOM HEADER MGRID, 2MM DUAL ROW HDR WITH PEG, SMT						
ANGULAR ± 3 °		SKTOH 2004/01/12		APPROVED BY DATE		MATERIAL NO.		DOCUMENT NO.		SHEET NO.				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87759-113		2 OF 2								
SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
fb_frame_A3_P_AM_T Rev. E 2006/04/15		9	8	7	6	5	4	3	2	1				