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Part Number: [0877592215](#)
Status: **Active**
Overview: [milligrid](#)
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, 22 Circuits, 0.76µm (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

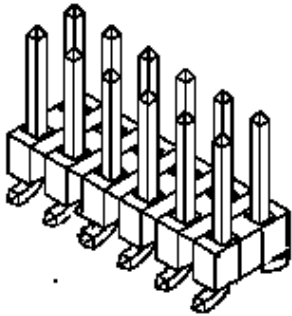
UL	E29179
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General

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

Physical

Breakaway	Yes
Circuits (Loaded)	22
Circuits (maximum)	22
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	No
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



Not Reviewed

**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-87759-118

This document was generated on 05/25/2010

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10 9 8 7 6 5 4 3 2 1

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E

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C

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A

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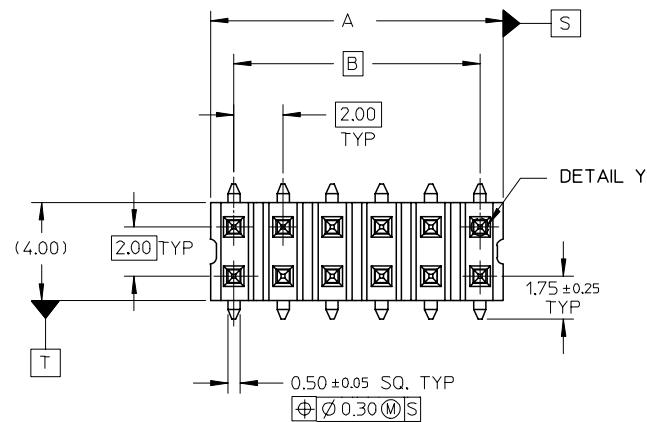
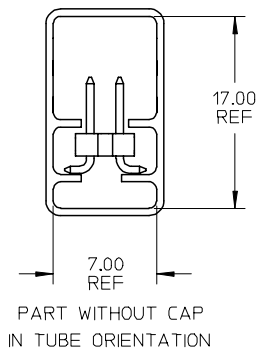
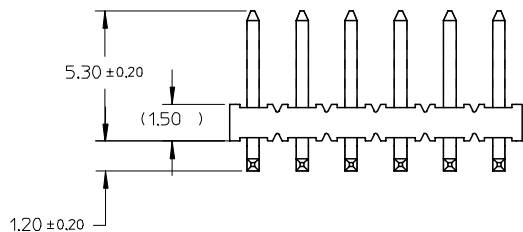
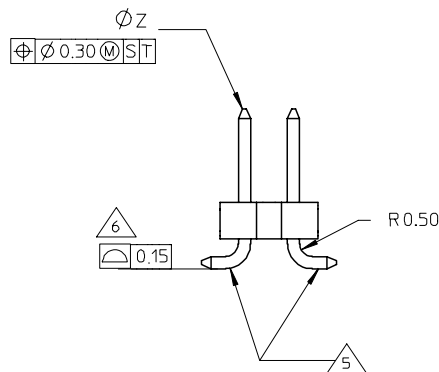
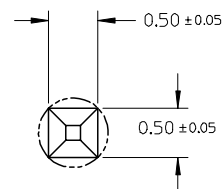
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DETAIL Y

NOTE:

1. MATERIAL:
HSG & CAP - LCP,
UL 94V-0, COLOUR BLACK

PIN - 0.50 SQ PHOSPHOR BRONZE

2. PLATING:
0.76um MIN GOLD PLATE AT CONTACT AREA,
TIN PLATE AT SOLDER AREA,
BOTH OVER NICKEL UNDERPLATE

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. CAP TO BE LOCATED AS CENTRAL OF PART AS POSSIBLE
TOP SURFACE OF CAP TO BE FLAT FOR THE PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE.

8. FOR ILLUSTRATION PURPOSES, 12CKT IS SHOWN.

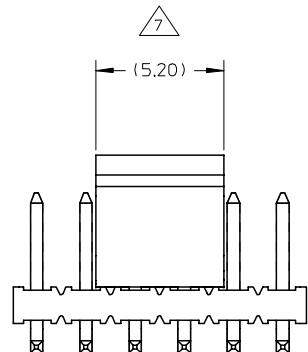
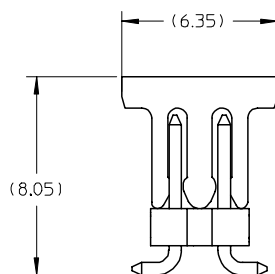
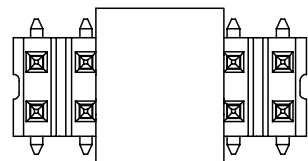
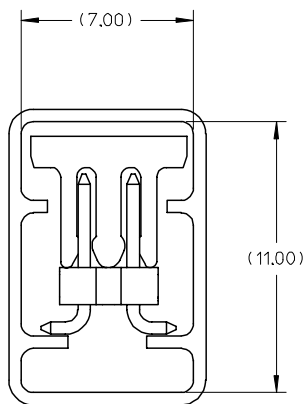
9. CKT 4 & 6 IS CUT FROM CKT 8 & 12 RESPECTIVELY
ROUGH EDGES ARE EXPECTED ALONG THE CUTTING EDGES.

10. PART TO BE PACKED IN TRAY 10 ONLY.

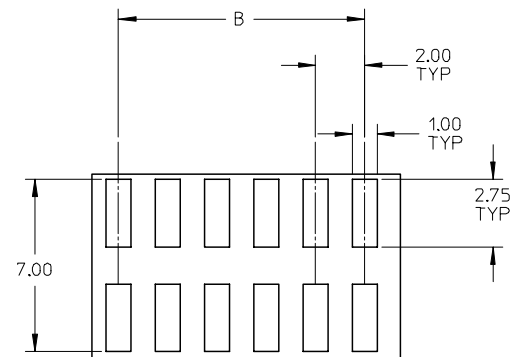
11. TUBE LENGTH IS 560MM REF STANDARD.

REVISED TUBE SPEC			DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
EC NO: S2007-0829 DRWN:SKL/M01 CHKD:CW/LAM APPR:KW/LEE	2007/04/10 2007/04/12 2007/04/17				DRAWN BY DATE		TITLE				
					KSEE2003/12/17		MGRID, 2MM DUAL ROW HEADER, SMT				
					CHECKED BY DATE						
					KCL/ING2004/01/12						
					APPROVED BY DATE						
		SKT/0H2004/01/12		molexMOLEX INCORPORATED							
		ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87759-118		1 OF 4			
B		REV		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

9 8 7 6 5 4 3 2 1



PART WITH CAP IN
TUBE ORIENTATION



RECOMMENDED SOLDER PAD LAYOUT

REVISED TUBE SPEC EC NO: S2007-0829 2007/04/10 DRWN:SKL/M01 2007/04/12 CHKD:CLW/LAM 2007/04/17 APPR:KWLEE				DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
			mm		INCH	DRAWN BY KSEE		DATE 2003/12/17		TITLE MGRID, 2MM DUAL ROW HEADER, SMT			
						CHECKED BY KCLING		DATE 2004/01/12					
						APPROVED BY SKTOH		DATE 2004/01/12		molex MOLEX INCORPORATED			
						ANGULAR ± 3 °							
						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87759-118		SHEET NO. 2 OF 4	
B						SIZE 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	PART NUMBER WITH CAP IN TUBE	PART NUMBER WITH CAP IN TAPE AND REEL.	CKT SIZE	A	B	Bo	F	So	W	EMBOSSED TYPE	F																																																																						
	87759-0415  	87759-0465	87759-0475	4	NA	2.00	5.40	11.50	-	24.00	C																																																																							
	87759-0615 	87759-0665	87759-0675	6	NA	4.00	7.20	11.50	-	24.00	C																																																																							
E	87759-0815	87759-0865	87759-0875	8	7.90	6.00	8.20	11.50	-	24.00	C	E																																																																						
	87759-1015	87759-1065	87759-1075	10	9.90	8.00	10.20	11.50	-	24.00	A																																																																							
	87759-1215	87759-1265	87759-1275	12	11.90	10.00	12.20	11.50	-	24.00	A																																																																							
D	87759-1415	87759-1465	87759-1475	14	13.90	12.00	14.20	11.50	-	24.00	A	D																																																																						
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	87759-1815	87759-1865	87759-1875	18	17.90	16.00	18.20	14.20	28.40	32.00	B																																																																							
C	87759-2015	87759-2065	87759-2075	20	19.90	18.00	20.20	14.20	28.40	32.00	B	C																																																																						
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	87759-2415	87759-2465	87759-2475	24	23.90	22.00	24.20	20.20	40.40	44.00	B																																																																							
B	87759-2615	87759-2665	87759-2675	26	25.90	24.00	26.20	20.20	40.40	44.00	B	B																																																																						
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	87759-4215	87759-4265	87759-4275	42	41.90	40.00	42.20	26.20	52.40	56.00	B																																																																							
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	87759-4615	87759-4665	87759-4675	46	45.90	44.00	46.20	26.20	52.40	56.00	B																																																																							
	87759-4815	87759-4865	87759-4875	48	47.90	46.00	48.20	26.20	52.40	56.00	B																																																																							
B	87759-5015	87759-5065	87759-5075	50	49.90	48.00	50.20	34.20	68.40	72.00	B	B																																																																						
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