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Part Number: [0877596547](#)
Status: **Active**
Overview: [milligrid](#)
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, 50 Circuits, 0.76μm (30μ") Gold (Au) Selective Plating, with Press-fit Plastic Pegs, Pick-and-Place Cap, Tape on Reel Packaging, 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) 50
Circuits (maximum) 50
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 Embossed Tape on Reel
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
Robotic Placement Pick and Place Cap
Shrouded No
Stackable Yes
Temperature Range - Operating -55°C to +105°C

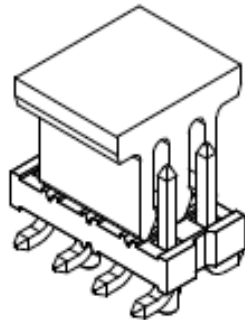


image - Reference only

Series

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.

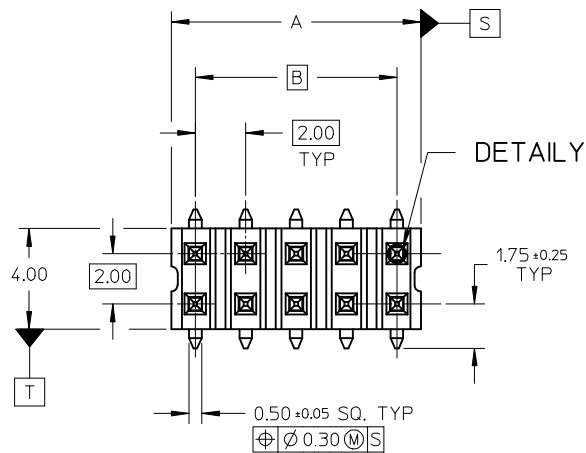
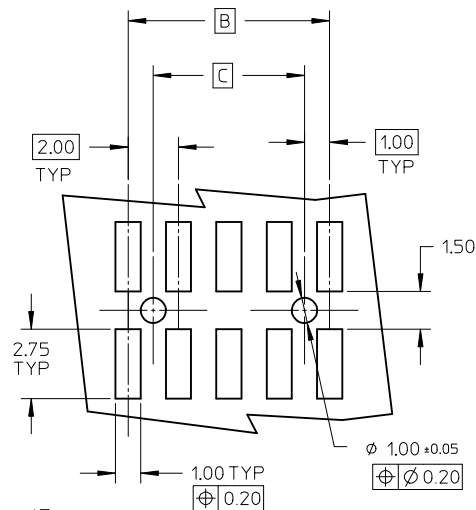
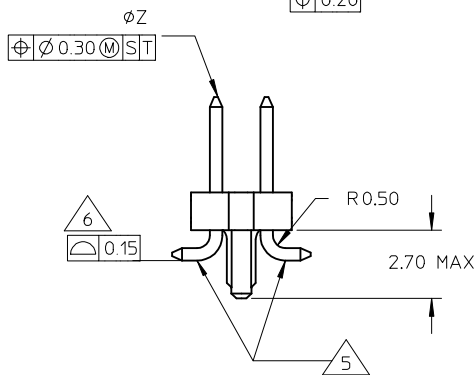
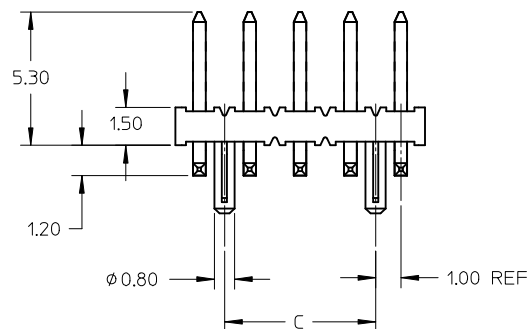
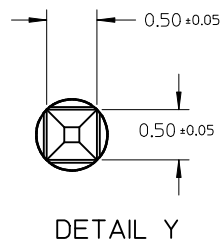
Search Parts in this Series
[87759Series](#)

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

Termination Interface: Style	Surface Mount
Electrical	
Current - Maximum per Contact	2A
Voltage - Maximum	125V
Material Info	
Reference - Drawing Numbers	
Product Specification	PS-87761-100
Sales Drawing	SD-87759-207

This document was generated on 05/25/2010

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NOTE:

1. MATERIAL:
HSG & CAP - HIGH TEMPERATURE THERMOPLASTIC,
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 GAUGE 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, 10CKT IS SHOWN (WITH TAPE & REEL ON 2ND SHEET). SHT 3 INDICATES THE TYPE OF EMBOSSED USED IN GENERAL.

9. TUBE LENGTH IS 560MM REF STANDARD.

10. RECOMMENDED PCB BOARD THK IS 1.60+0.10 MM.

CORRECT P/N'S/ TYPO ERROR EC NO: S2009-0867 DRAWN:ATSEE 2009/05/28 CHK'D:SKANG 2009/05/29 APPR:MLONG 2009/06/01	DESCRIPTION	QUALITY SYMBOLS <div>▽=0</div> <div>▽=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY KSEE	DATE 2003/12/19	TITLE SALES DRAWING MGRID 2MM DUAL ROW SMT HDR WITH PEG				
			4 PLACES	± ---	± ---	CHECKED BY	DATE					
			3 PLACES	± ---	± ---	KCLING	2004/01/12					
			2 PLACES	± 0.2	± ---	APPROVED BY	DATE					
			1 PLACE	± ---	± ---	SKTOH	2004/01/12	molex MOLEX INCORPORATED				
			ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-87759-207					1 OF 4		
B1	REV				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

E

D

C

B

A

F

E

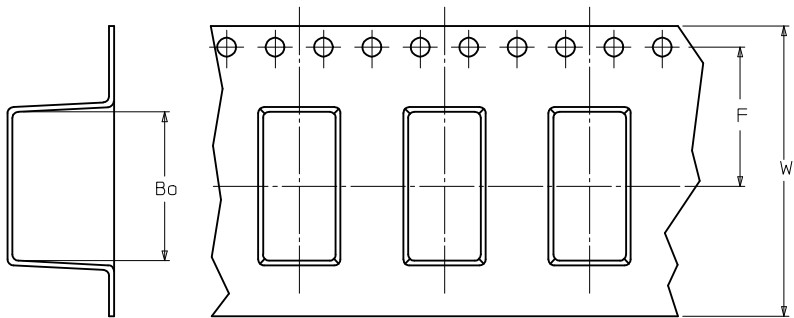
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C

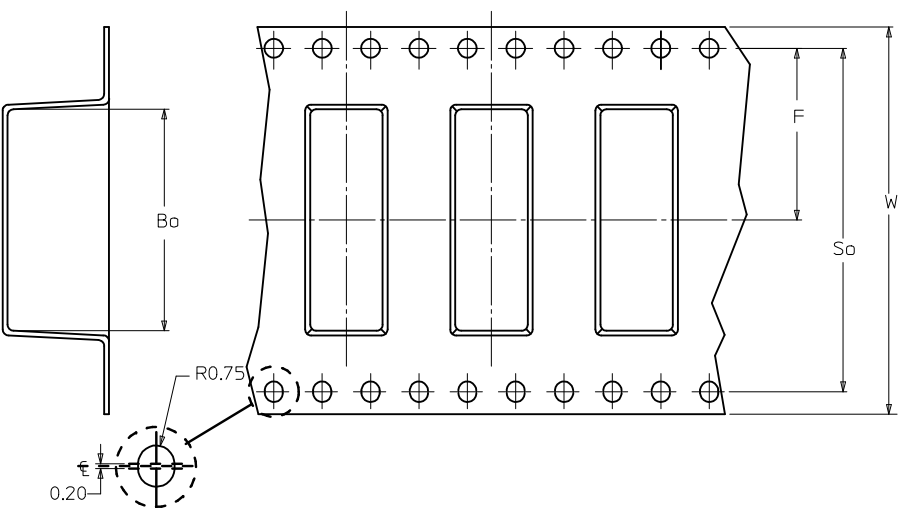
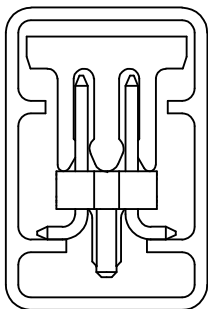
B

A

EMBOSSED CARRIER TAPE TYPE "A"



EMBOSSED CARRIER TAPE TYPE "B"



PART WITH CAP IN
TUBE ORIENTATION

CORRECT P/NS' TYPO ERROR EC NO: S2009-0867 2009/05/28 DRWN:ATSEE CHKD:SKANG 2009/05/29 APPR:MLONG 2009/06/01	DESCRIPTION	QUALITY SYMBOLS ▽=0 ⌵=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY KSEE	DATE 2003/12/19	TITLE SALES DRAWING MGRID 2MM DUAL ROW SMT HDR WITH PEG MOLEX INCORPORATED				
			4 PLACES	± ---	± ---	CHECKED BY	DATE					
			3 PLACES	± ---	± ---	KCLING	2004/01/12					
			2 PLACES	± 0.2	± ---	APPROVED BY	DATE	MOLEX				
			1 PLACE	± ---	± ---	SKTOH	2004/01/12					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO. SEE TABLE			DOCUMENT NO. SD-87759-207			SHEET NO. 3 OF 4			
			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 WITH CAP IN TUBE	PART NUMBER WITH CAP IN TAPE AND REEL.	CKT SIZE	A	B	C	Bo	F	So	W	EMBOSSED TYPE	
	87759-0866	87759-6526	08	7.90	6.00	4.00	8.50	11.50	-	24.00	A	
	87759-1066	87759-6527	10	9.90	8.00	6.00	10.50	11.50	-	24.00	A	
	87759-1266	87759-6528	12	11.90	10.00	8.00	12.50	11.50	-	24.00	A	
	87759-1466	87759-6529	14	13.90	12.00	10.00	14.50	11.50	-	24.00	A	
	87759-1666	87759-6530	16	15.90	14.00	12.00	16.50	14.20	28.40	32.00	B	
	87759-1866	87759-6531	18	17.90	16.00	14.00	18.50	14.20	28.40	32.00	B	
E	87759-2066	87759-6532	20	19.90	18.00	16.00	20.50	20.20	40.40	44.00	B	
	87759-2266	87759-6533	22	21.90	20.00	18.00	22.50	20.20	40.40	44.00	B	
	87759-2466	87759-6534	24	23.90	22.00	20.00	24.50	20.20	40.40	44.00	B	
	87759-2666	87759-6535	26	25.90	24.00	22.00	26.50	20.20	40.40	44.00	B	
	87759-2866	87759-6536	28	27.90	26.00	24.00	28.50	20.20	40.40	44.00	B	
D	87759-3066	87759-6537	30	29.90	28.00	26.00	30.50	20.20	40.40	44.00	B	
	87759-3266	87759-6538	32	31.90	30.00	28.00	32.50	26.20	52.40	56.00	B	
	87759-3466	87759-6539	34	33.90	32.00	30.00	34.50	26.20	52.40	56.00	B	
	87759-3666	87759-6540	36	35.90	34.00	32.00	36.50	26.20	52.40	56.00	B	
	87759-3866	87759-6541	38	37.90	36.00	34.00	38.50	26.20	52.40	56.00	B	
	87759-4066	87759-6542	40	39.90	38.00	36.00	40.50	26.20	52.40	56.00	B	
C	87759-4266	87759-6543	42	41.90	40.00	38.00	42.50	26.20	52.40	56.00	B	
	87759-4466	87759-6544	44	43.90	42.00	40.00	44.50	26.20	52.40	56.00	B	
	87759-4666	87759-6545	46	45.90	44.00	42.00	50.50	34.20	68.40	72.00	B	
	87759-4866	87759-6546	48	47.90	46.00	44.00	50.50	34.20	68.40	72.00	B	
	87759-5066	87759-6547	50	49.90	48.00	46.00	50.50	34.20	68.40	72.00	B	
B												
A												