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Part Number: [0877597626](#)
Status: **Active**
Overview: [milligrid](#)
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, 8 Circuits, 0.38μm (15μ") Gold (Au) Selective Plating, with Press-fit Plastic Pegs, with Pick-and-Place Cap, Tape and 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) 8
Circuits (maximum) 8
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 Nylon
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) 15
Plating min: Mating (μm) 0.38
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

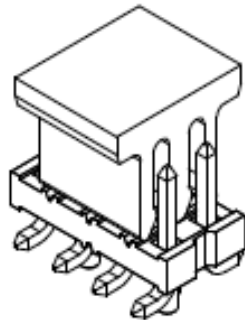


image - Reference only

Series

EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free
Status
Not Halogen-Free

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
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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

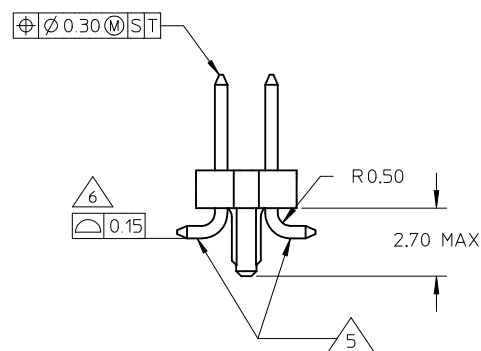
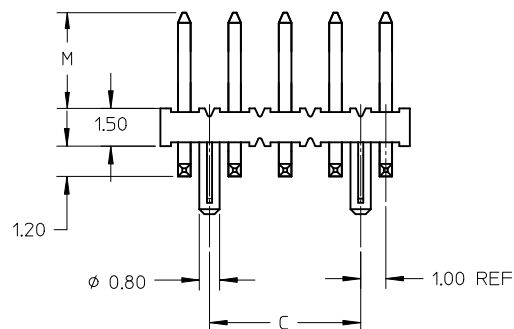
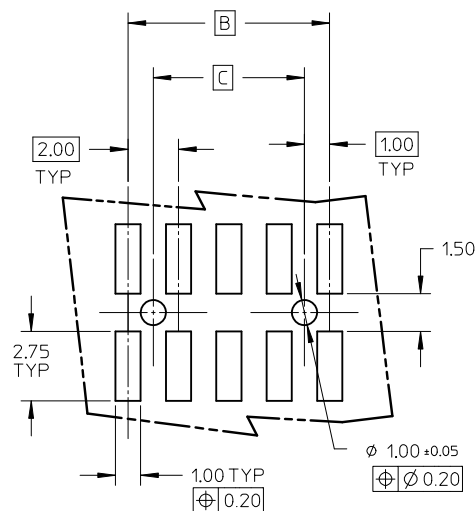
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-89990-484
Product Specification	PS-87761-100
Sales Drawing	SD-87759-208

This document was generated on 05/25/2010

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1. MATERIAL:
HSG & CAP - NYLON, GLASS-FILLED,
UL 94V-0, COLOUR BLACK

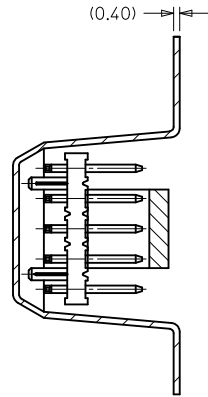
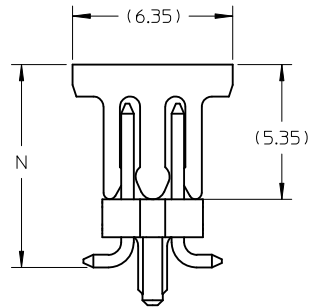
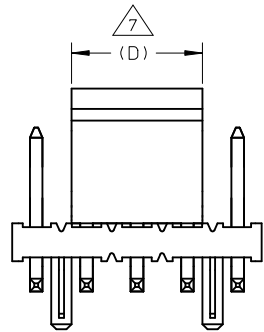
PIN - 0.50 SQ PHOSPHOR BRONZE
2. PLATING:
0.38um MIN GOLD PLATE AT CONTACT AREA,
TIN PLATE AT SOLDER AREA,
BOTH OVER NICKEL UNDERPLATE
3. PIN PUSHOUT FORCE: 1KG MIN IN EITHER DIRECTION
4. PRODUCT SPEC PS-87761-100 APPLIES.
5. BEND DEPRESSION IS ACCEPTABLE SO LONG AS IT DOES NOT
AFFECT THE OVERALL COPLANARITY 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.

CHG DIM M. EWR#1191 EC NO: S2010-0237 DRAWN:ATSEE CHK'D:SKANG APPR:MLONG	2009/12/16 2009/12/17 2009/12/21	DESCRIPTION D3	REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION											
				 =0  =0  =0	<table><tr><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES ± --- ± ---</td><td>DRAWN BY KSEE DATE 2003/12/22</td></tr><tr><td>3 PLACES ± --- ± ---</td><td>CHECKED BY DATE</td></tr><tr><td>2 PLACES ± 0.2 ± ---</td><td>KCLING 2004/01/12</td></tr><tr><td>1 PLACE ± --- ± ---</td><td>APPROVED BY DATE</td></tr><tr><td>ANGULAR ± 3 °</td><td>MLONG 2009/12/17</td></tr></table>	mm	INCH	4 PLACES ± --- ± ---	DRAWN BY KSEE DATE 2003/12/22	3 PLACES ± --- ± ---	CHECKED BY DATE	2 PLACES ± 0.2 ± ---	KCLING 2004/01/12	1 PLACE ± --- ± ---	APPROVED BY DATE	ANGULAR ± 3 °	MLONG 2009/12/17	TITLE CUSTOM HEADER MGRID, 2MM DUAL ROW HDR WITH PEG, SMT				
				mm	INCH																	
				4 PLACES ± --- ± ---	DRAWN BY KSEE DATE 2003/12/22																	
				3 PLACES ± --- ± ---	CHECKED BY DATE																	
2 PLACES ± 0.2 ± ---	KCLING 2004/01/12																					
1 PLACE ± --- ± ---	APPROVED BY DATE																					
ANGULAR ± 3 °	MLONG 2009/12/17																					
 MOLEX INCORPORATED																						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87759-208		SHEET NO. 1 OF 4																
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																						

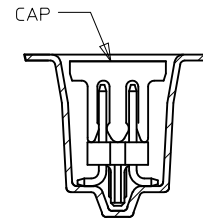
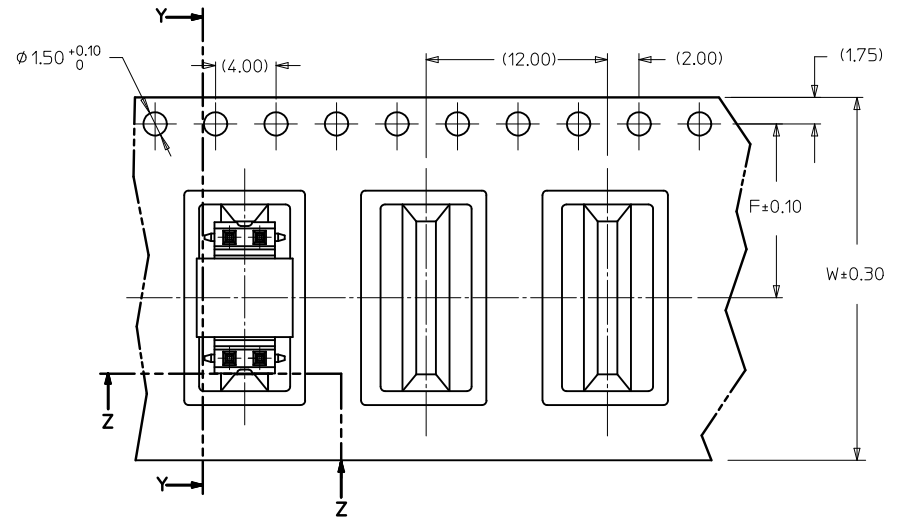
CAP TYPE	D
C1	5.20
C2	4.60

EMBOSSED TYPE "A"

PART WITH CAP IN TAPE & REEL ORIENTATION

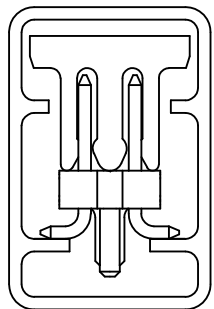
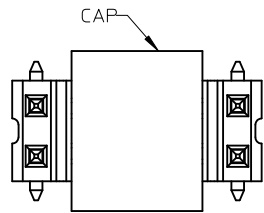


SECTION Y-Y



SECTION Z-Z

CUSTOMER PULL OUT
DIRECTION



PART WITH CAP IN
TUBE ORIENTATION

CHG DIM M. EWR#1191 EC NO: S2010-0237 DRAWN AT SEE CHKD:SKANG APPR:MLONG REV D3	DESCRIPTION 2009/12/16 2009/12/17 2009/12/21	QUALITY SYMBOLS F_A=0 F_C=0 F_P=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
					DRAWN BY KSEE	DATE 2003/12/22	TITLE CUSTOM HEADER MGRID, 2MM DUAL ROW HDR WITH PEG, SMT						
					CHECKED BY KCL ING	DATE 2004/01/12							
					APPROVED BY MLONG	DATE 2009/12/17						MOLEX MOLEX INCORPORATED	
					ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87759-208		2 OF 4		
							SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

F														E														D														C														B														A																																									
10		9		8		7		6		5		4		3		2		1																																																																																													
PART NUMBER WITH CAP IN TUBE		PART NUMBER WITH CAP IN TAPE & REEL		CKT SIZE	A	B	C	M	N	F	So	W	EMBOSSED TYPE	CAP TYPE																																																																																																	
87759-0876		87759-7626		08	7.90	6.00	4.00	3.80	8.05	11.50	-	24.00	A	C1																																																																																																	
87759-5276		87759-7648		08	7.90	6.00	4.00	8.80	13.00	11.50	-	24.00	A	C2																																																																																																	
87759-1076		87759-7627		10	9.90	8.00	6.00	3.80	8.05	11.50	-	24.00	A	C1																																																																																																	
87759-1276		87759-7628		12	11.90	10.00	8.00	3.80	8.05	11.50	-	24.00	A																																																																																																		
87759-1476		87759-7629		14	13.90	12.00	10.00	3.80	8.05	11.50	-	24.00	A																																																																																																		
87759-1676		87759-7630		16	15.90	14.00	12.00	3.80	8.05	14.20	28.40	32.00	B																																																																																																		
87759-1876		87759-7631		18	17.90	16.00	14.00	3.80	8.05	14.20	28.40	32.00	B																																																																																																		
87759-2076		87759-7632		20	19.90	18.00	16.00	3.80	8.05	20.20	40.40	44.00	B																																																																																																		
87759-2276		87759-7633		22	21.90	20.00	18.00	3.80	8.05	20.20	40.40	44.00	B																																																																																																		
87759-2476		87759-7634		24	23.90	22.00	20.00	3.80	8.05	20.20	40.40	44.00	B																																																																																																		
87759-2676		87759-7635		26	25.90	24.00	22.00	3.80	8.05	20.20	40.40	44.00	B																																																																																																		
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87759-3076		87759-7637		30	29.90	28.00	26.00	3.80	8.05	20.20	40.40	44.00	B																																																																																																		
87759-3276		87759-7638		32	31.90	30.00	28.00	3.80	8.05	26.20	52.40	56.00	B																																																																																																		
87759-3476		87759-7639		34	33.90	32.00	30.00	3.80	8.05	26.20	52.40	56.00	B																																																																																																		
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87759-3876		87759-7641		38	37.90	36.00	34.00	3.80	8.05	26.20	52.40	56.00	B																																																																																																		
87759-4076		87759-7642		40	39.90	38.00	36.00	3.80	8.05	26.20	52.40	56.00	B																																																																																																		
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87759-4876		87759-7646		48	47.90	46.00	44.00	3.80	8.05	34.20	68.40	72.00	B																																																																																																		
87759-5076		87759-7647		50	49.90	48.00	46.00	3.80	8.05	34.20	68.40	72.00	B																																																																																																		