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Part Number: [0877590866](#)
Status: **Active**
Overview: [milligrid](#)
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, 8 Circuits, 0.76µm (30µ") Gold (Au) Selective Plating, with Press-fit Plastic Pegs, Pick-and-Place Cap, Tube 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 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
Plating min: Termination (µin) 74.8
Plating min: Termination (µm) 1.90
Polarized to Mating Part No
Polarized to PCB No
Robotic Placement Pick and Place Cap
Shrouded No

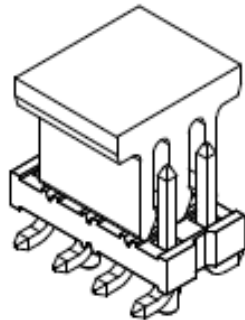


image - Reference only

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](#)

Stackable	Yes
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Surface Mount

Electrical

Current - Maximum per Contact	2A
Voltage - Maximum	125V

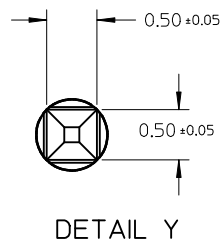
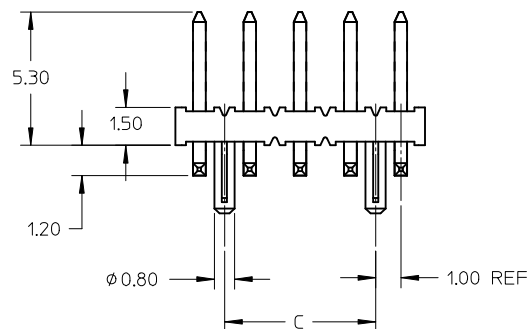
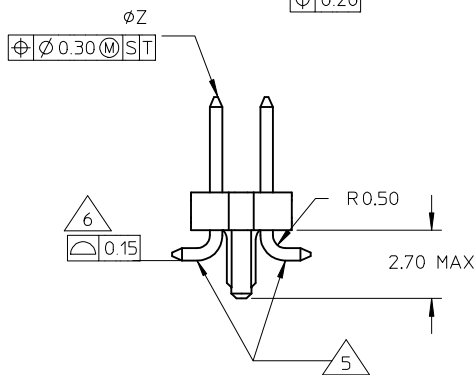
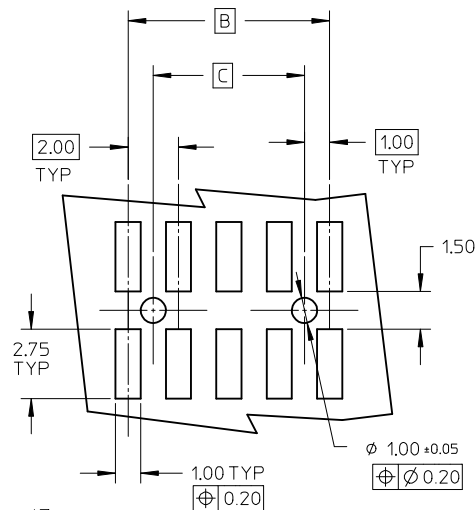
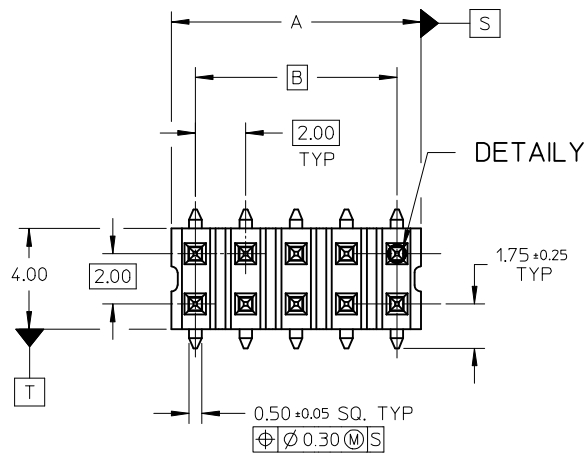
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-89990-476
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.

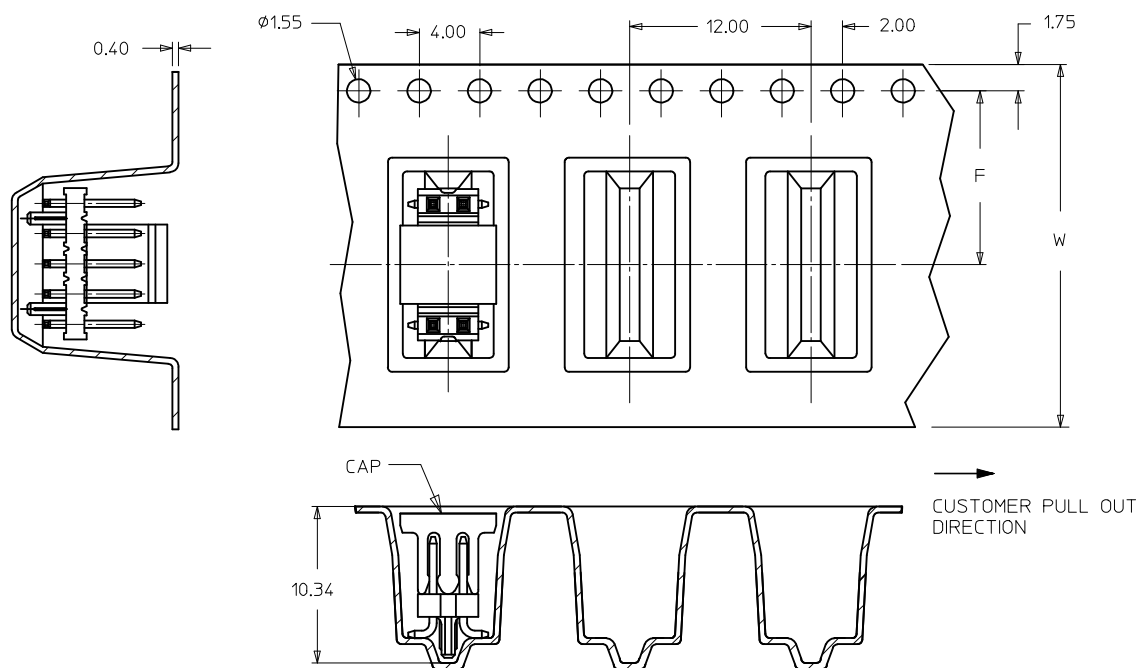
8. FOR ILLUSTRATION PURPOSES, 10CKT IS SHOWN (WITH TAPE & REEL ON 2ND SHEET). SHT 3 INDICATES THE TYPE OF EMBOSSED USED IN GENERAL.

9. TUBE LENGTH IS 560MM REF STANDARD.

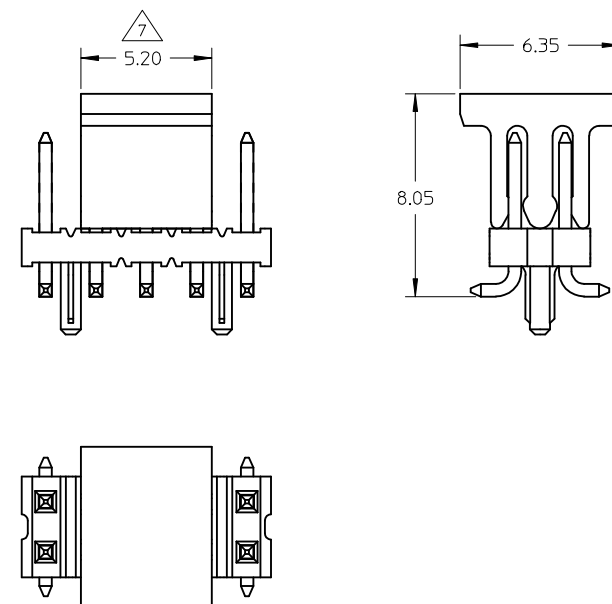
10. RECOMMENDED PCB BOARD THK IS 1.60±0.10 MM.

CORRECT P/N'S/ TYPO ERROR		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION	
EC NO: S2009-0867		DESCRIPTION ▼=0 ▽=0		mm		DRAWN BY		DATE		TITLE SALES DRAWING MGRID 2MM DUAL ROW SMT HDR WITH PEG			
2009/05/28				4 PLACES ± --- ± ---		KSEE		2003/12/19					
2009/05/29				3 PLACES ± --- ± ---		CHECKED BY		DATE					
2009/06/01				2 PLACES ± 0.2 ± ---		KCLING		2004/01/12					
CHKD:SKANG				1 PLACE ± --- ± ---		APPROVED BY		DATE		MOLEX MOLEX INCORPORATED			
APPR:MLONG		ANGULAR ± 3 °		SKTOH		2004/01/12							
				MATERIAL NO.				DOCUMENT NO.					
B1		REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		SEE TABLE		SD-87759-207		1 OF 4	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													

PART IN TAPE AND REEL ORIENTATION

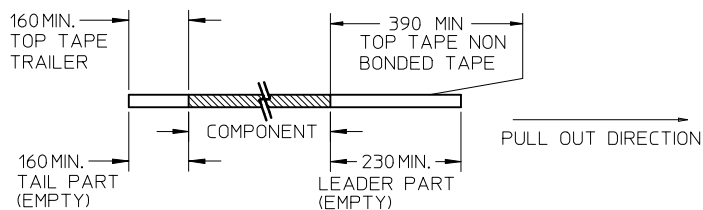


PART WITH CAP

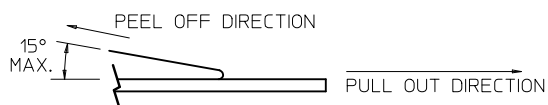


NOTES:

1. LEADER AND TRAILER TAPE



2. PEELING OFF FORCE OF THE TOP TAPE: 20 - 80gf. (PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



- TAPE AND REEL SPECIFICATION IS AS PER EIA-481.
- TAPE AND REEL QUANTITY : 500 PCS/ REEL.
- THE TAPE IS TREATED FOR ANTI-STATIC.

CORRECT P/N'S/ TYPO ERROR EC NO: S2009-0867 2009/05/28 DRW:ATSEE 2009/05/29 CHKD:SKANG 2009/06/01 APPR:MLONG B1	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
				MM ONLY		NTS	METRIC				
				DRAWN BY DATE		TITLE SALES DRAWING MGRID 2MM DUAL ROW SMT HDR WITH PEG					
				KSEE 2003/12/19							
				CHECKED BY DATE							
				KCL ING 2004/01/12							
				APPROVED BY DATE		MOLEX MOLEX INCORPORATED					
				SKTOH 2004/01/12							
				MATERIAL NO.		DOCUMENT NO.					SHEET NO.
				SEE TABLE		SD-87759-207					2 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

E

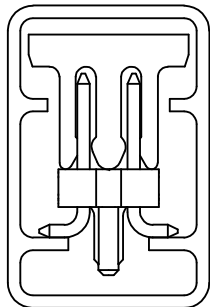
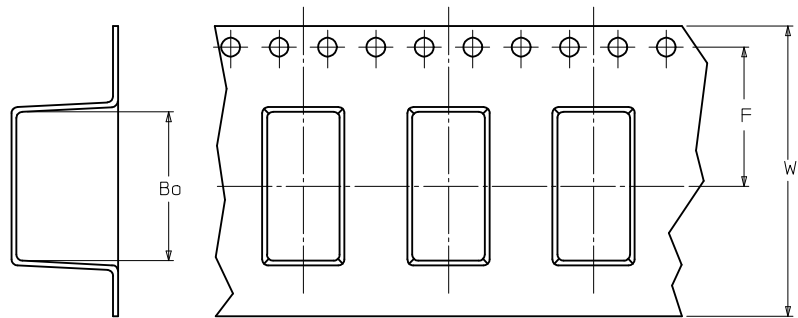
D

C

B

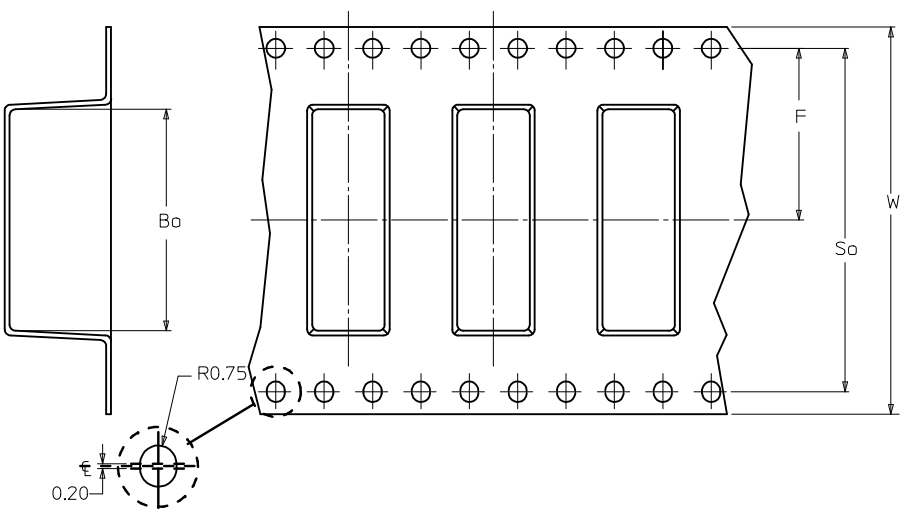
A

EMBOSSED CARRIER TAPE TYPE "A"



PART WITH CAP IN
TUBE ORIENTATION

EMBOSSED CARRIER TAPE TYPE "B"



F

E

D

C

B

A

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 REV	QUALITY SYMBOLS ▽=0 ⊥=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION					
					mm	INCH	DRAWN BY	DATE	TITLE SALES DRAWING MGRID 2MM DUAL ROW SMT HDR WITH PEG MOLEX INCORPORATED						
				4 PLACES	± ---	± ---	KSEE	2003/12/19							
				3 PLACES	± ---	± ---	CHECKED BY	DATE							
				2 PLACES	± 0.2	± ---	KCLING	2004/01/12	DOCUMENT NO. SD-87759-207						
				1 PLACE	± ---	± ---	APPROVED BY	DATE							
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			ANGULAR ± 3 °		SKTOH	2004/01/12	SHEET NO. 3 OF 4				
							MATERIAL NO.		SEE TABLE						
							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		
E	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		
	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		
D	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		
	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		
C	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		
	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													
</													