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Part Number: [0877593076](#)
Status: **Active**
Overview: [milligrid](#)
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, 30 Circuits, 0.38μm (15μ") 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
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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)	30
Circuits (maximum)	30
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	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)	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

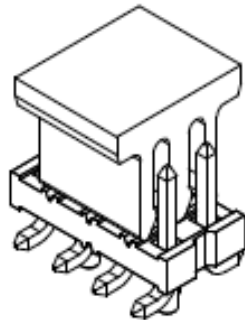


image - Reference only

Series

EU RoHS

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

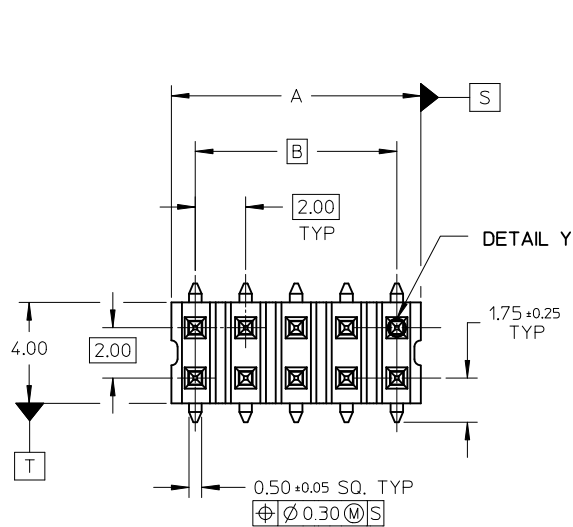
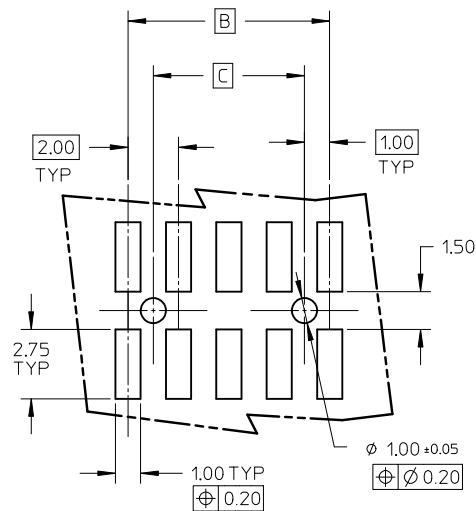
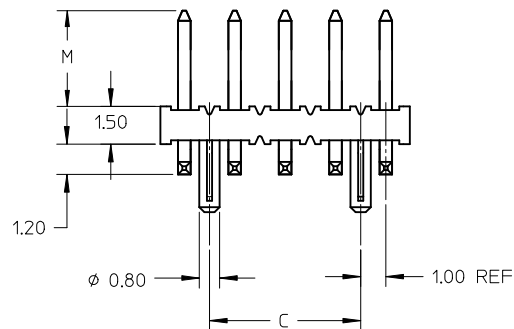
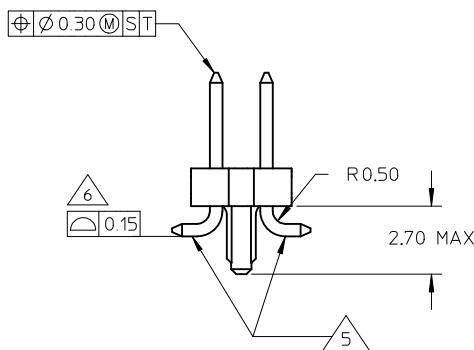
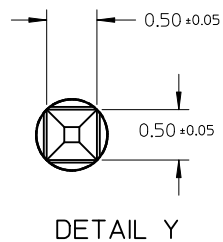
Search Parts in this Series
[87759Series](#)

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	
Packaging Specification	PK-89990-476
Product Specification	PS-87761-100
Sales Drawing	SD-87759-208

This document was generated on 05/25/2010

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NOTE:

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.

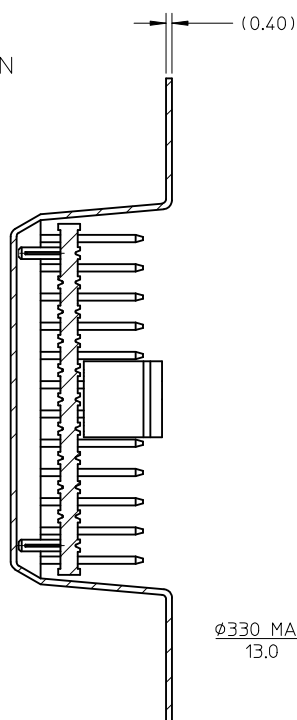
CHG DIM M. EWR#1191				QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
EC NO: S2010-0237						MM ONLY		NTS	METRIC		
2009/12/16						DRAWN BY		DATE		TITLE	
DRWN:ATSEE						KSEE		2003/12/22		CUSTOM HEADER	
2009/12/17						CHECKED BY		DATE		MGRID, 2MM DUAL ROW HDR	
CHKD:SKANG						KCLING		2004/01/12		WITH PEG, SMT	
2009/12/21						APPROVED BY		DATE		MOLEX INCORPORATED	
APPR:MLONG						MLONG		2009/12/17		SD-87759-208	
REV				ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
D3				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87759-208		1 OF 4	
						SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

A

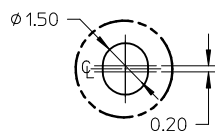
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EMBOSSED TYPE "B"

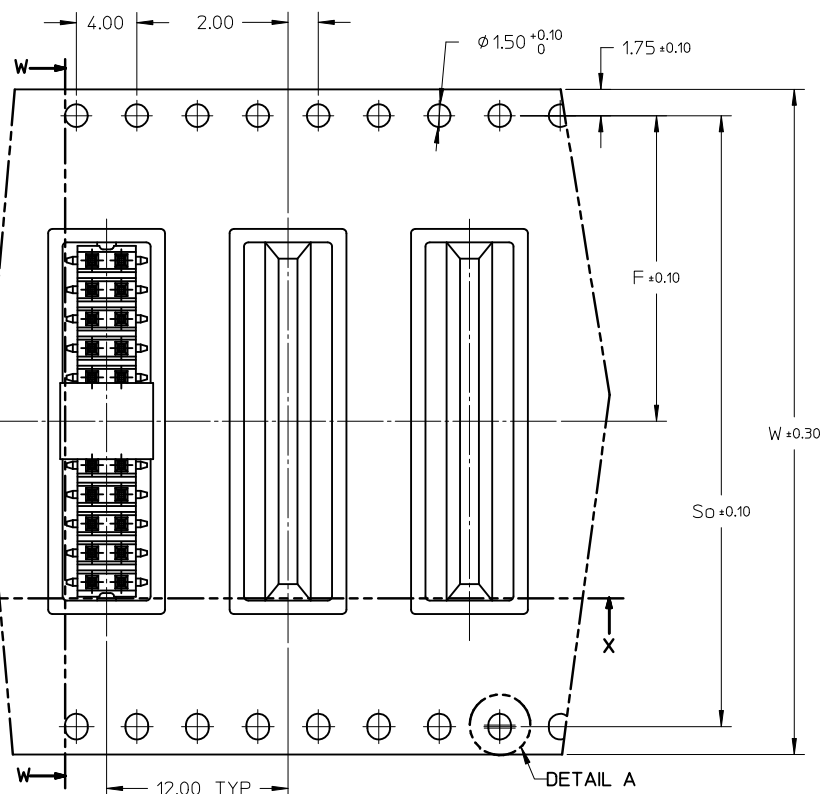
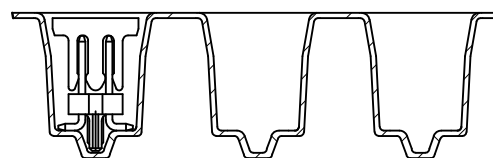
PART WITH CAP IN
TAPE & REEL ORIENTATION



Ø330 MAX
13.0



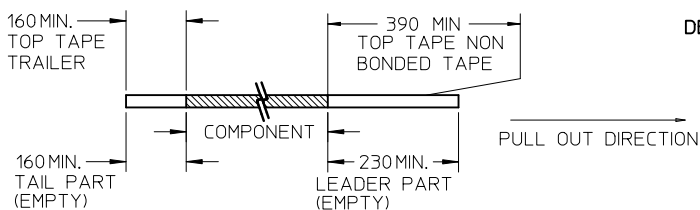
DETAIL A



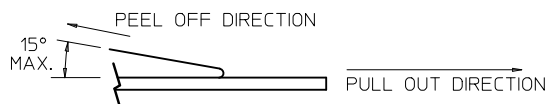
CUSTOMER PULL OUT
DIRECTION

NOTES:

1. LEADER AND TRAILER TAPE



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



3. TAPE AND REEL SPECIFICATION IS AS PER EIA-481.

4. TAPE AND REEL QUANTITY : 500 PCS/ REEL.

5. THE TAPE IS TREATED FOR ANTI-STATIC.

CHG DIM M. EWR#1191	EC NO: S2010-0237	2009/12/16	2009/12/17	2009/12/21
DRW:ATSEE	CHKD:SKANG	APPR:MLONG		
DESCRIPTION				
REV				
D3				

QUALITY SYMBOLS
$F_A=0$
$F_G=0$
$F_P=0$

GENERAL TOLERANCES (UNLESS SPECIFIED)	
	mm
4 PLACES	± 0.2
3 PLACES	± 0.1
2 PLACES	± 0.05
1 PLACE	± 0.02
ANGULAR ± 3°	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
KSEE	2003/12/22
CHECKED BY	DATE
KCLING	2004/01/12
APPROVED BY	DATE
MLONG	2009/12/17
MATERIAL NO.	
SEE TABLE	
SIZE	A3

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
NTS	METRIC	
TITLE		
CUSTOM HEADER MGRID, 2MM DUAL ROW HDR WITH PEG, SMT		
MOLEX INCORPORATED		
DOCUMENT NO.		SHEET NO.
SD-87759-208		3 OF 4

	10	9	8		7		6		5		4	3	2	1		
F	PART NUMBER WITH CAP IN TUBE	PART NUMBER WITH CAP IN TAPE & REEL	CKT SIZE	A	B	C	M	N	F	So	W	EMBOSSSED TYPE	CAP TYPE			F
	87759-0876	87759-7626	08	7.90	6.00	4.00	3.80	8.05	11.50	-	24.00	A	C1			E
	87759-5276	87759-7648	08	7.90	6.00	4.00	8.80	13.00	11.50	-	24.00	A	C2			E
	87759-1076	87759-7627	10	9.90	8.00	6.00	3.80	8.05	11.50	-	24.00	A	C1			D
	87759-1276	87759-7628	12	11.90	10.00	8.00	3.80	8.05	11.50	-	24.00	A				D
	87759-1476	87759-7629	14	13.90	12.00	10.00	3.80	8.05	11.50	-	24.00	A				D
E	87759-1676	87759-7630	16	15.90	14.00	12.00	3.80	8.05	14.20	28.40	32.00	B				D
	87759-1876	87759-7631	18	17.90	16.00	14.00	3.80	8.05	14.20	28.40	32.00	B				D
	87759-2076	87759-7632	20	19.90	18.00	16.00	3.80	8.05	20.20	40.40	44.00	B				D
	87759-2276	87759-7633	22	21.90	20.00	18.00	3.80	8.05	20.20	40.40	44.00	B				D
	87759-2476	87759-7634	24	23.90	22.00	20.00	3.80	8.05	20.20	40.40	44.00	B				D
	87759-2676	87759-7635	26	25.90	24.00	22.00	3.80	8.05	20.20	40.40	44.00	B				D
D	87759-2876	87759-7636	28	27.90	26.00	24.00	3.80	8.05	20.20	40.40	44.00	B				D
	87759-3076	87759-7637	30	29.90	28.00	26.00	3.80	8.05	20.20	40.40	44.00	B				D
	87759-3276	87759-7638	32	31.90	30.00	28.00	3.80	8.05	26.20	52.40	56.00	B				D
	87759-3476	87759-7639	34	33.90	32.00	30.00	3.80	8.05	26.20	52.40	56.00	B				D
	87759-3676	87759-7640	36	35.90	34.00	32.00	3.80	8.05	26.20	52.40	56.00	B				D
	87759-3876	87759-7641	38	37.90	36.00	34.00	3.80	8.05	26.20	52.40	56.00	B				D
C	87759-4076	87759-7642	40	39.90	38.00	36.00	3.80	8.05	26.20	52.40	56.00	B				D
	87759-4276	87759-7643	42	41.90	40.00	38.00	3.80	8.05	26.20	52.40	56.00	B				D
	87759-4476	87759-7644	44	43.90	42.00	40.00	3.80	8.05	26.20	52.40	56.00	B				D
	87759-4676	87759-7645	46	45.90	44.00	42.00	3.80	8.05	34.20	68.40	72.00	B	D			
	87759-4876	87759-7646	48	47.90	46.00	44.00	3.80	8.05	34.20	68.40	72.00	B	D			
	87759-5076	87759-7647	50	49.90	48.00	46.00	3.80	8.05	34.20	68.40	72.00	B	D			
B															B	
															B	
A															A	