

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0877597644](#)
Status: **Active**
Overview: [milligrid](#)
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, 44 Circuits, 0.38μm (15μ") 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) 44
Circuits (maximum) 44
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
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

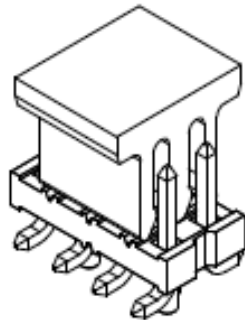


image - Reference only

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

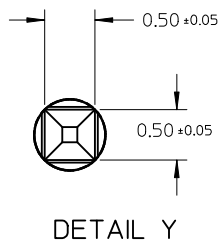
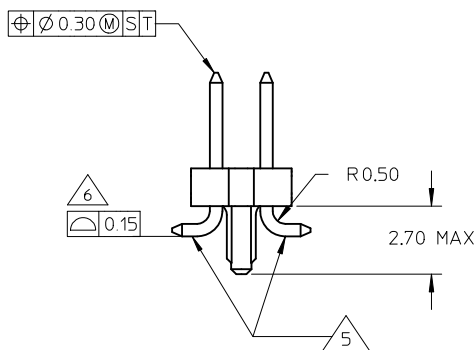
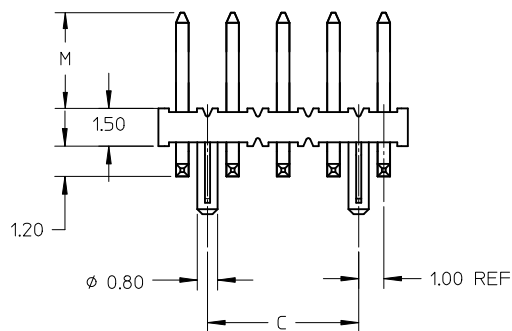
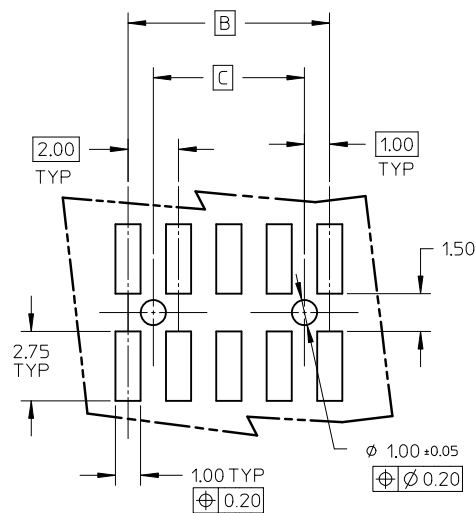
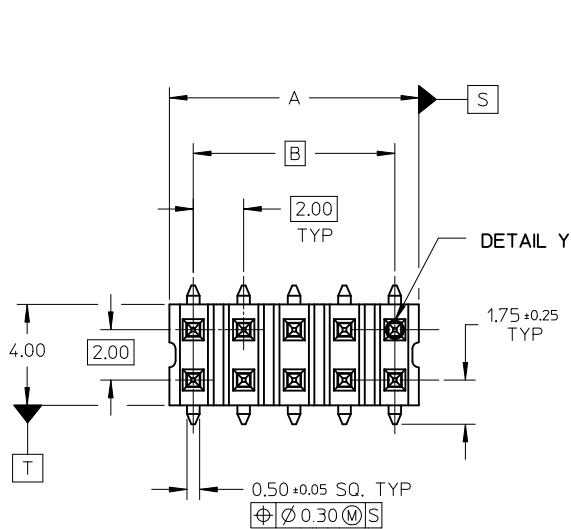
Material Info

Reference - Drawing Numbers

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

This document was generated on 05/25/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



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.

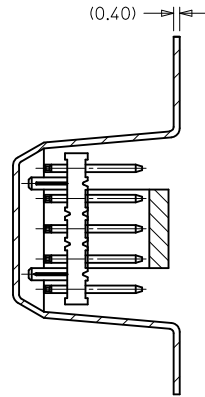
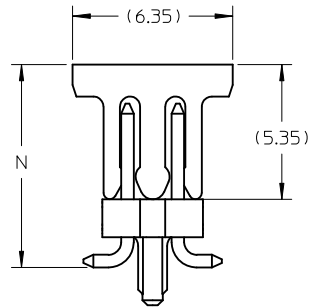
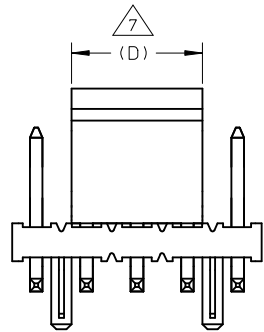
10. RECOMMENDED PCB BOARD THK IS 1.60±0.10 MM.

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

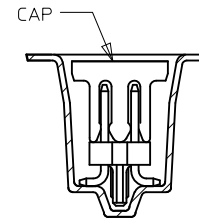
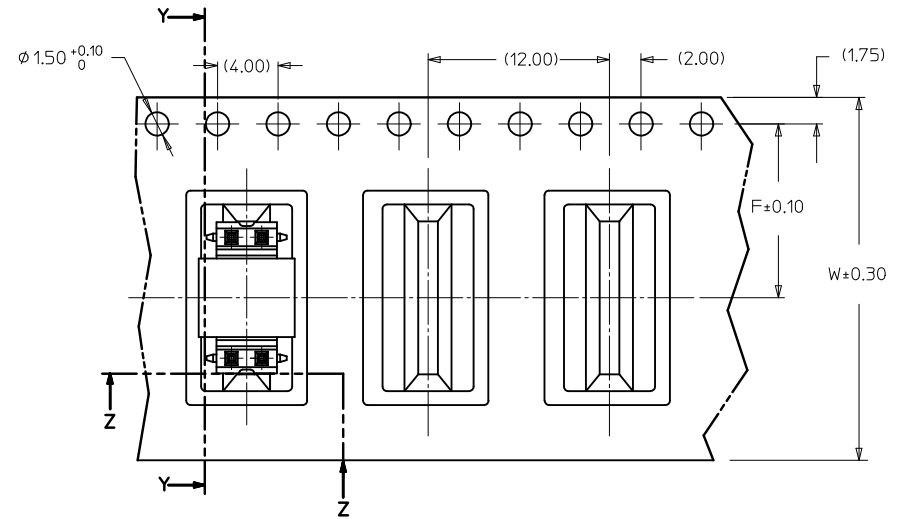
CAP TYPE	D
C1	5.20
C2	4.60

EMBOSSED TYPE "A"

PART WITH CAP IN TAPE & REEL ORIENTATION

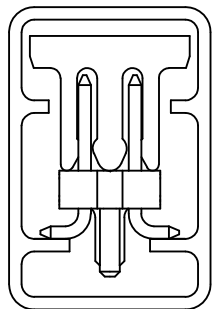
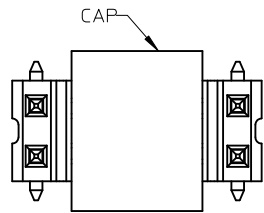


SECTION Y-Y



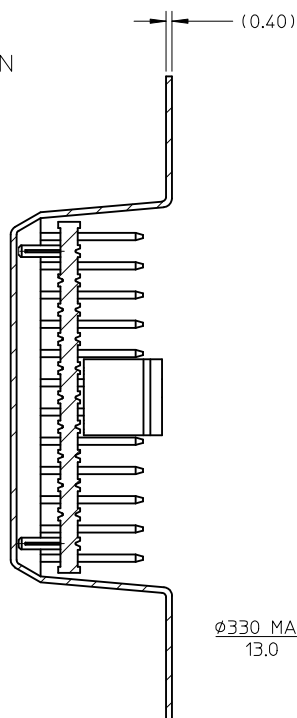
SECTION Z-Z

CUSTOMER PULL OUT
DIRECTION

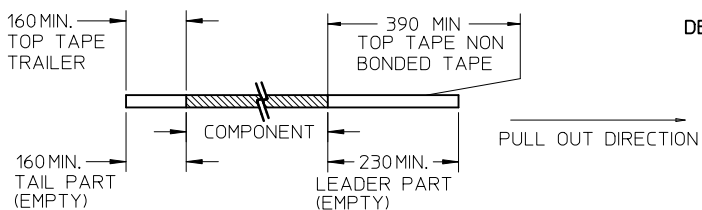


PART WITH CAP IN
TUBE ORIENTATION

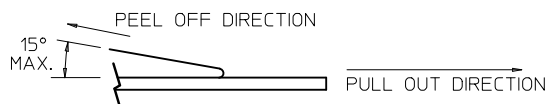
CHG DIM M. EWR#1191 EC NO: S2010-0237 2009/12/16 DRWN:ATSEE 2009/12/17 CHKD:SKANG 2009/12/21 APPR:MLONG	DESCRIPTION REV	QUALITY SYMBOLS F_A=0 F_C=0 F_P=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY KSEE	DATE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

PART WITH CAP IN
TAPE & REEL ORIENTATION

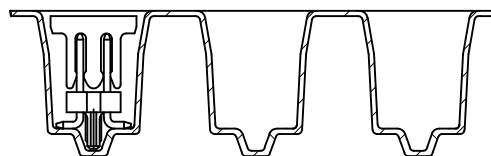
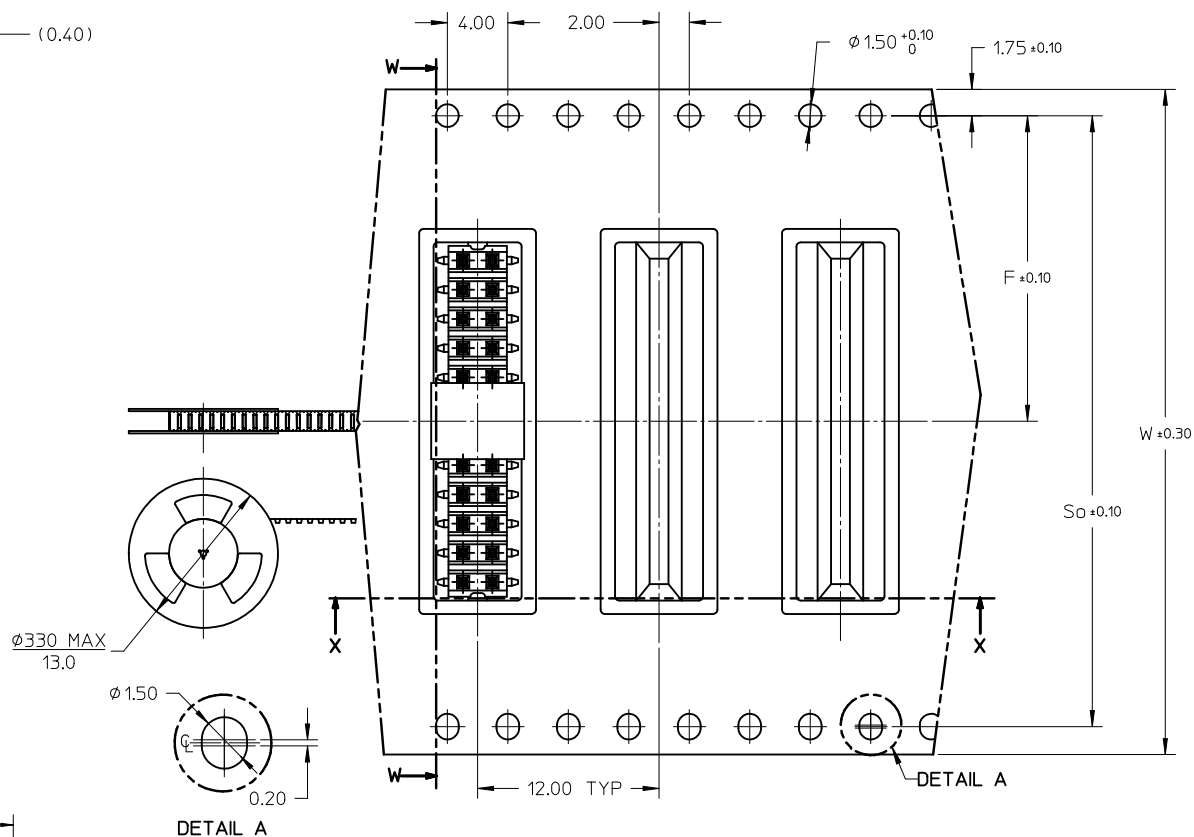
1. LEADER AND TRAILER TAPE



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.



CUSTOMER PULL OUT
DIRECTION

CHG DIM M. EWR#1191 EC NO: S2010-0237 DRAWN:ATSEE CHKD:SKANG APPR:MLONG	2009/12/16 2009/12/17 2009/12/21	DESCRIPTION D3	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY KSEE		DATE 2003/12/22		TITLE CUSTOM HEADER MGRID, 2MM DUAL ROW HDR WITH PEG, SMT		
				4 PLACES	± --- ± ---	CHECKED BY KCLING		DATE 2004/01/12				
				3 PLACES	± --- ± ---	APPROVED BY		DATE		molex MOLEX INCORPORATED		
				2 PLACES	± 0.2 ± ---	MLONG		2009/12/17				
				1 PLACE	± --- ± ---	MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87759-208		SHEET NO. 3 OF 4		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

tb_frame_A3_P_AM_T
Rev. F 2009/06/18