

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0878320836

Status:

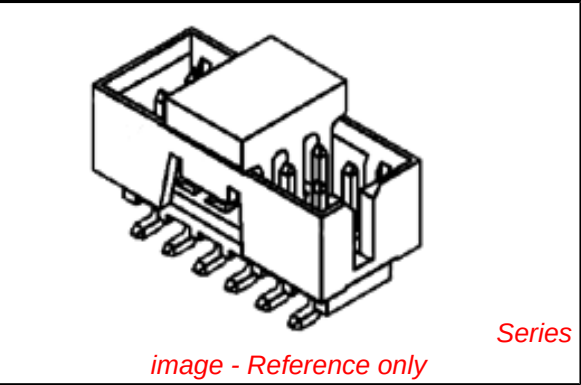
Active

Overview:

milligrid

Description:

2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, Shrouded, Lead-free, 8 Circuits, 0.38µm (15µ") Gold (Au) Plating, with Central Locking Window, with Pick-and-Place Cap, with PCB Locator, Embossed Tape on Reel



Documents:

Drawing (PDF)

Product Specification PS-87831-027 (PDF)

RoHS Certificate of Compliance (PDF)

General	
Product Family	PCB Headers
Series	87832
Application	Wire-to-Board
Comments	With Cap Contact Molex for application in automotive industry
Overview	milligrid
Product Name	Milli-Grid™
Physical	
Breakaway	No
Circuits (Loaded)	8
Circuits (maximum)	8
Color - Resin	Black
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	Yes
Lock to Mating Part	Yes
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)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	75
Plating min: Termination (µm)	1.88
Polarized to Mating Part	Center Slot
Polarized to PCB	No
Robotic Placement	Pick and Place Cap
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Surface Mount

Electrical

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

87832Series

Mates With

50394 Wire-to-Board Terminals. 51110 Wire-to-Board Crimp Housing. 87568 Wire-to-Board IDT Housings. 79107 Board-to-Board Top Entry Through Hole Receptacle. 79108 Board-to-Board FFC/FPC Top Entry Through Hole Receptacle. L

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	1
Process Temperature max. C	260

Material Info

Reference - Drawing Numbers

Product Specification	PS-87831-027
Sales Drawing	SD-87832-034

This document was generated on 05/25/2010

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PEG OPTION	P/N WITH CAP IN TAPE & REEL	P/N WITH CAP IN TUBE	P/N WITHOUT CAP IN TUBE	CKT SIZE	DIMENSION				
					A	B	C	D	P
YES	87832-0836	87832-0837	87832-0838	8	6.00	8.85	10.65	9.00	4.00

F

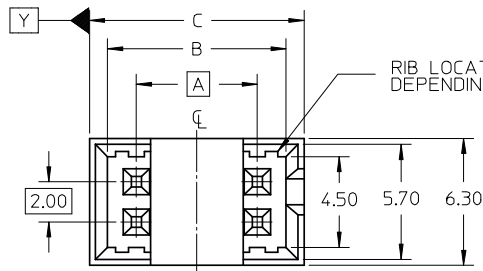
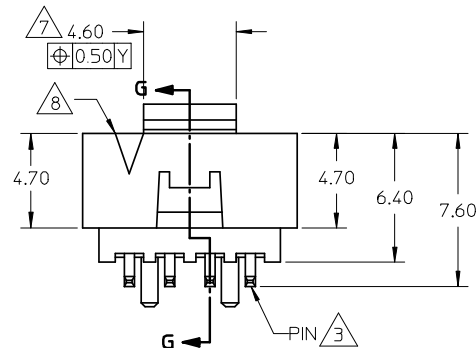
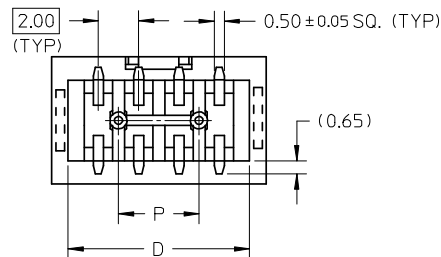
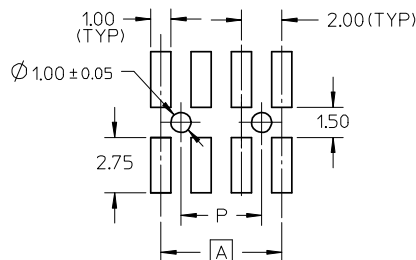
E

D

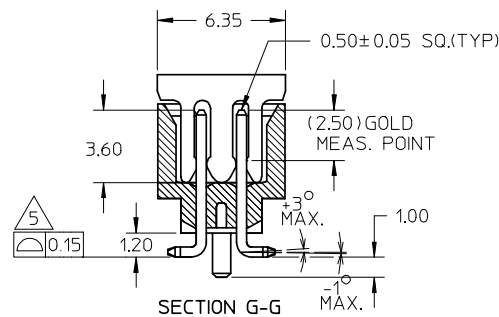
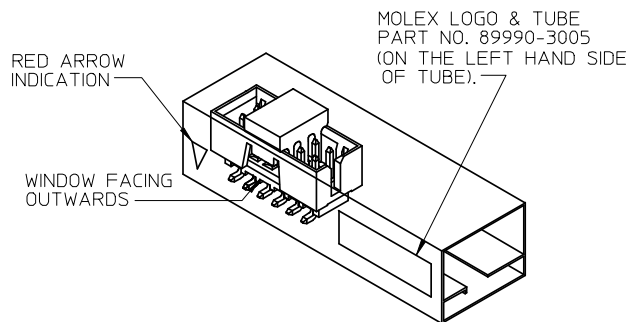
C

B

A



RECOMMENDED PCB PATTERN



REF : ORIENTATION OF PART IN TUBE.
(FOR THE REFERENCE OF PART/TUBE ASSEMBLY.)

NOTES:

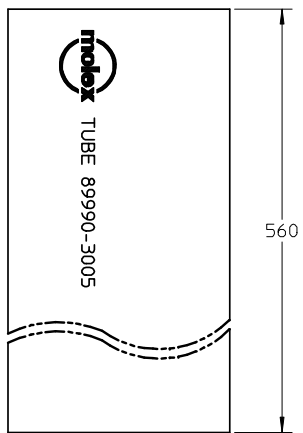
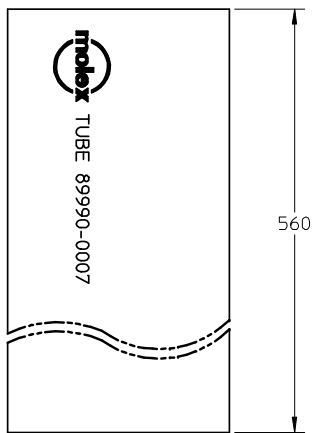
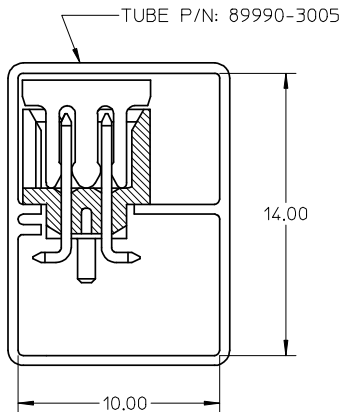
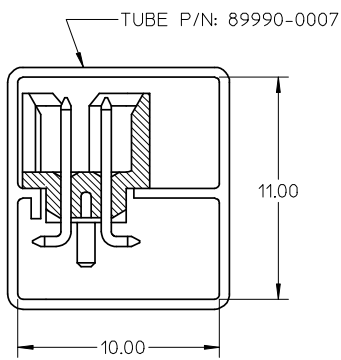
- FOR ILLUSTRATION PURPOSES, 8 CIRCUIT SIZE WAFER IS SHOWN.
- MATERIAL :
HOUSING & CAP : 30% G.F., NYLON 46, UL94V-0, COLOR BLACK.
PIN : 0.50MM SQ.PHOSPHOR BRONZE.
- PLATING :
0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN.TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
- PIN PUSHOUT FORCE : 0.91 KG MIN. IN EITHER DIRECTION.
- PRODUCT SPECIFICATION PS-87831-027 APPLIES.
- COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A GAUGE SURFACE.
- BEND DEPRESSION ON SMT TAIL IS ACCEPTABLE SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY OF THE TAIL.
- CAP TO BE POSITION IN THE CENTER OF HEADER FOR PICK AND PLACE.
- CKT 4 & 6 HAS NO IDENTIFICATION TAG.
- THIS HEADER MATES WITH MOLEX:
 - CRIMP RECEPTACLE HOUSING, 51110 SERIES WITH CRIMP TERMINAL, 50394 SERIES.
 - 2MM MILLIGRID DUAL ROW IDT, 87568 SERIES.
- PARTS TO BE PACKED IN MOISTURE BARRIER BAG WITH DESICCANT GEL.

PDR#S-001812-00-00					DESCRIPTION		QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
EC NO: S2008-1150		2008/06/25		MM ONLY				NTS	METRIC						
DRWN:SKANG		2008/06/27		DRAWN BY DATE				TITLE MGRID, SHROUDED HEADER W/PEGS/CAP/LOCK FEATURE SINGLE SIDE SLOT, SMT							
CHKD:ATSEE		2008/06/27		CHECKED BY DATE											
APPR:MLONG		2008/06/27		ATSEE 2008/06/25											
				APPROVED BY DATE		MOLEX INCORPORATED									
				MLONG 2008/06/27											
				ANGULAR ± 3 °		SEE TABLE									
				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									

WITH CAP
TUBE PACKAGING

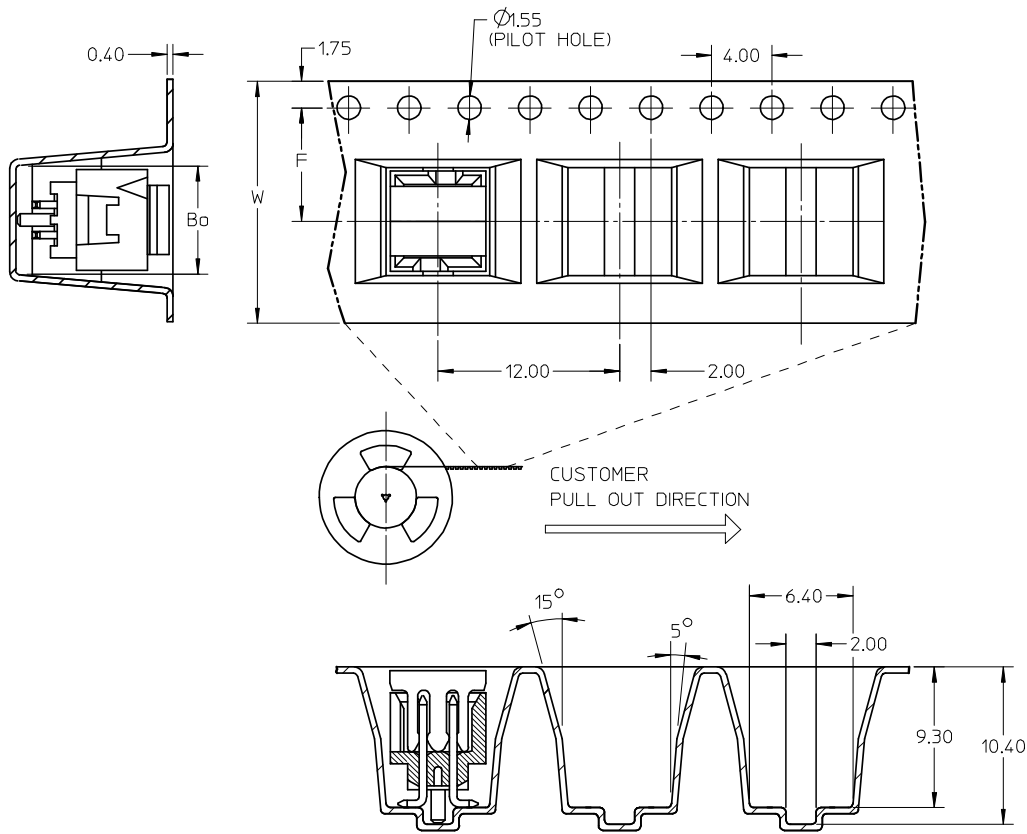
WITHOUT CAP
TUBE PACKAGING

P/N WITH CAP IN T&R	CKT SIZE	F	Bo	So	W
87832-0836	08	11,50	11,05	-	24,00



- NOTES:
- LEADER AND TRAILER TAPE
160 MIN. TOP TAPE TRAILER
390 MIN. TOP TAPE NON BONDED TAPE
160 MIN. TAIL PART (EMPTY)
230 MIN. LEADER PART (EMPTY)
PULL OUT DIRECTION
 - PEELING OFF FORCE OF THE TOP TAPE: 20-80gf.
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)
PEEL OFF DIRECTION
15° MAX.
PULL OUT DIRECTION
 - PACKAGING STANDARD IS AS PER EIA-481.

EMBOSSED CARRIER TAPE 'A'



PDR#S-001812-00-00 EC NO: S2008-1150 DRWN:SKANG CHKD:ATSEE APPR:MLONG A	2008/06/25 2008/06/27 2008/06/27	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY SKANG	DATE 2008/06/05	TITLE MGRID, SHROUDED HEADER W/PEGS/CAP/LOCK FEATURE SINGLE SIDE SLOT, SMT				
				4 PLACES	± ---	± ---	CHECKED BY ATSEE					DATE 2008/06/25
				3 PLACES	± ---	± ---	APPROVED BY MLONG	DATE 2008/06/27	MOLEX MOLEX INCORPORATED			
				2 PLACES	± 0.2	± ---	MATERIAL NO. SEE TABLE					
1 PLACE	± ---	± ---	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					