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Part Number: [0878324016](#)
Status: **Active**
Overview: [milligrid](#)
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, Shrouded, Lead-free, 40 Circuits, 0.38µm (15µ") Gold (Au) Plating, with Locking Windows, Center Polarization Slot, Cap, without PCB Locator, Tube

Documents:
[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Drawing \(PDF\)](#)

Agency Certification

CSA LR19980
UL E29179

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) 40
Circuits (maximum) 40
Color - Resin Black
First Mate / Last Break No
Flammability 94V-0
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 No
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
Plating min: Termination (µin) 75
Plating min: Termination (µm) 1.88
Polarized to Mating Part Side Slots (2)
Polarized to PCB No
Shrouded Fully
Stackable No

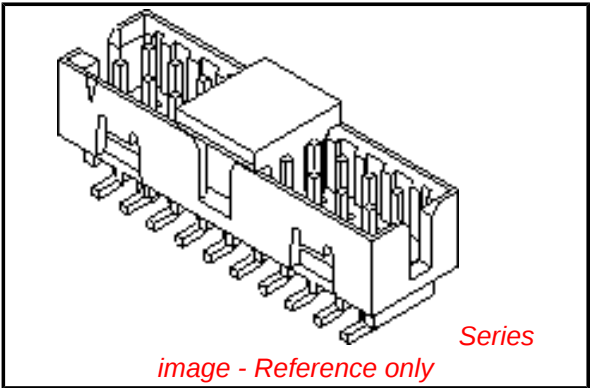


image - Reference only

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

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

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	1
Process Temperature max. C	260

Material Info

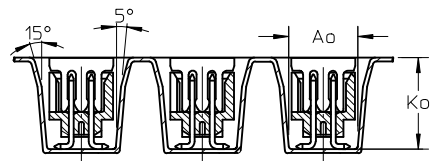
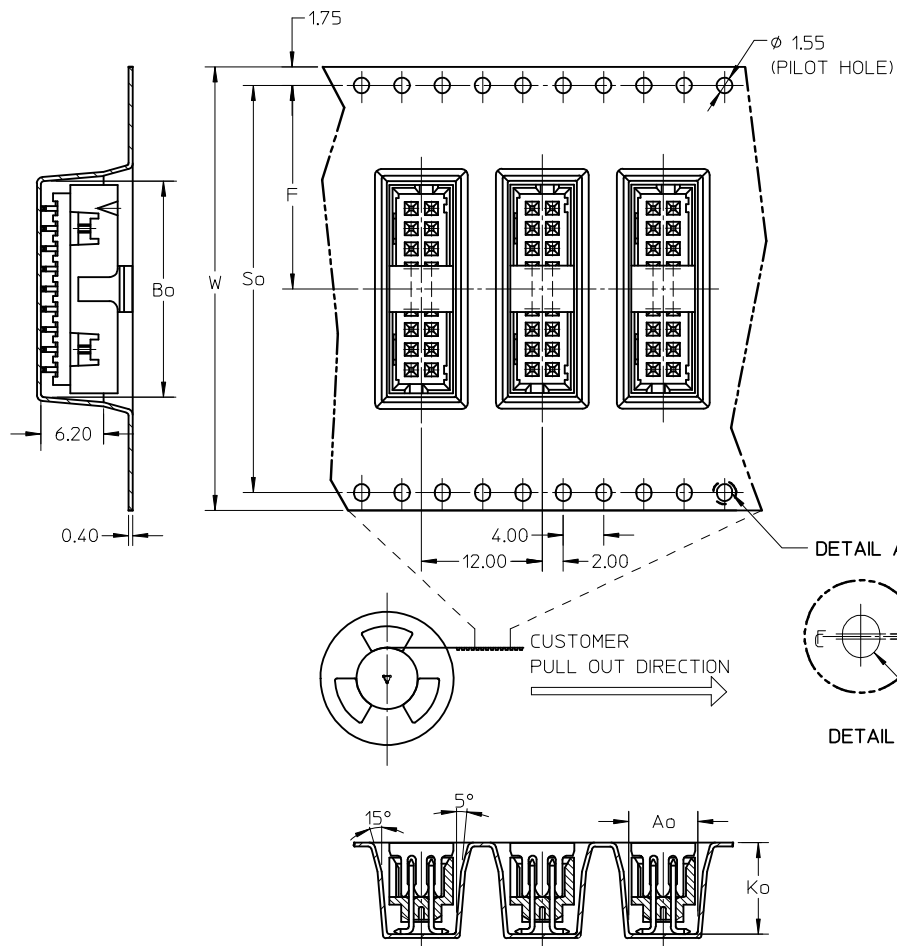
Reference - Drawing Numbers

Sales Drawing	SD-87832-008
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This document was generated on 05/26/2010

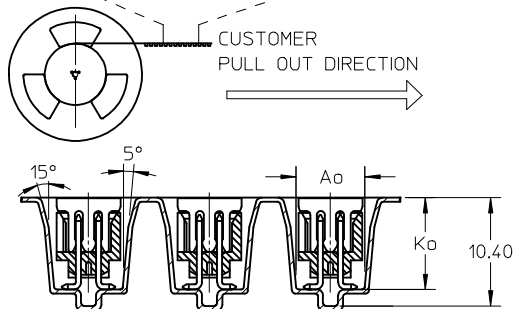
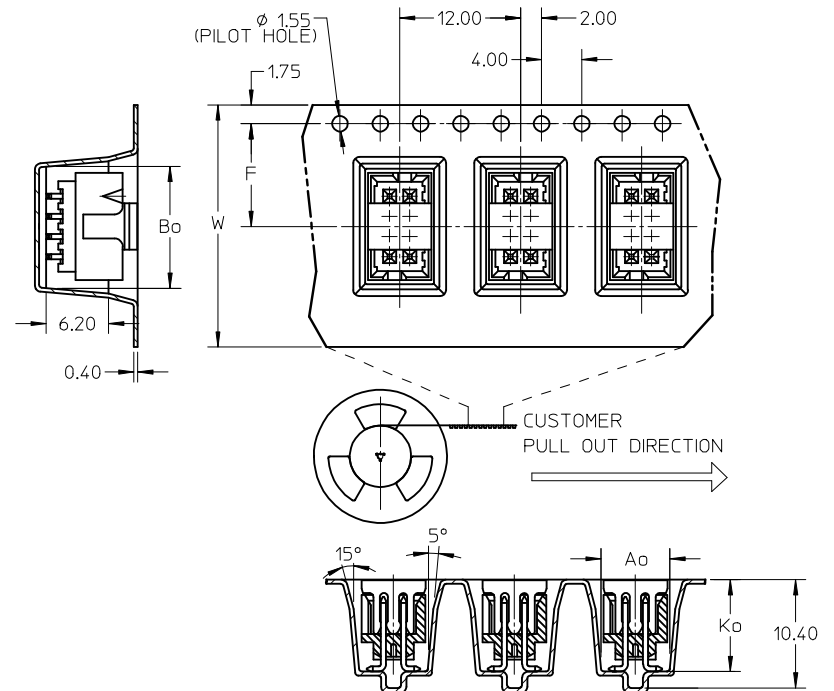
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EMBOSSED CARRIER TAPE 'B'



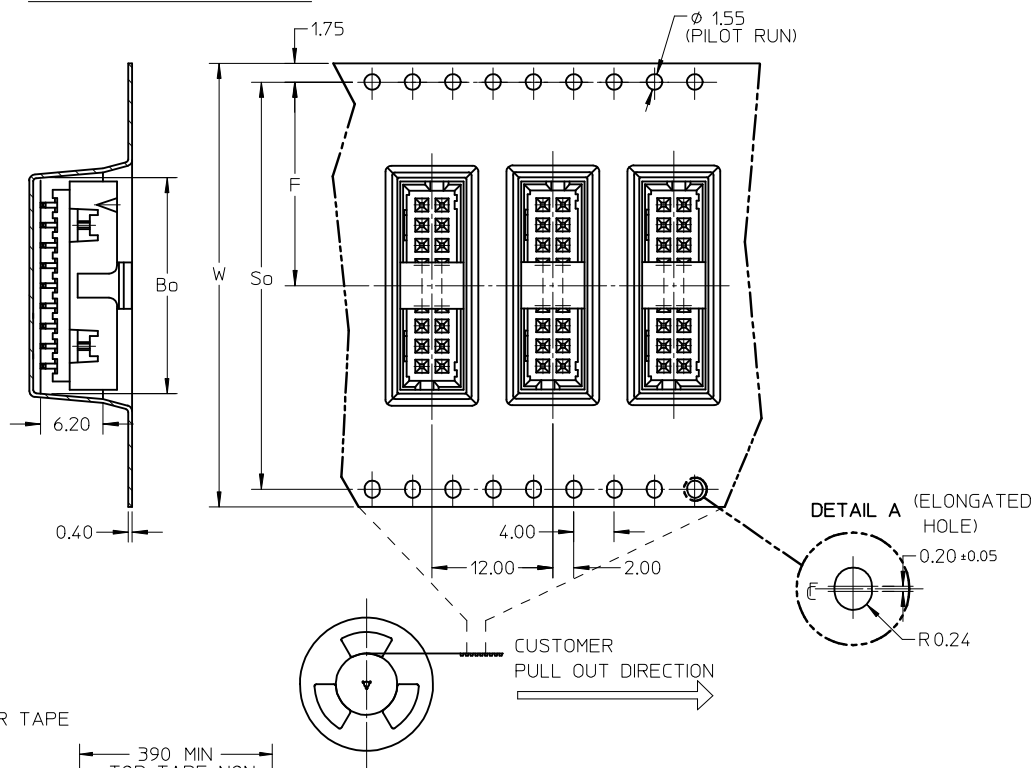
P/N	W/CAP IN T&R	CKT SIZE	W	F	Bo	So	Ao	Ko	TYPE	T&R QUANTITY (PCS/REEL)
87832-0614		06	24.00	11.50	9.15	-	6.40	9.30	A	500
87832-0814		08	24.00	11.50	11.05	-	6.40	9.30	A	
87832-1014		10	24.00	11.50	13.05	-	6.40	9.30	A	
87832-1414		14	32.00	14.20	17.05	28.40	6.40	9.30	C	
87832-1614		16	32.00	14.20	19.05	28.40	6.40	9.30	C	
87832-1814		18	44.00	20.20	21.05	40.40	6.40	9.30	B	
87832-2014		20	44.00	20.20	23.05	40.40	6.40	9.30	C	
87832-3014		30	44.00	20.20	33.05	40.40	6.40	9.30	B	
87832-3414		34	56.00	26.20	37.05	52.40	6.40	9.30	B	

EMBOSSED CARRIER TAPE 'A'



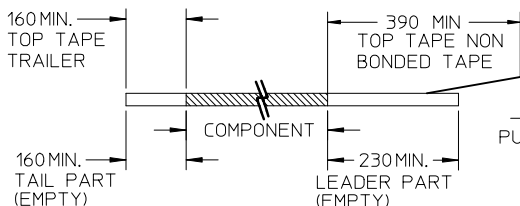
ADD IN NOTES NO.12 EC NO: S2009-0943 DRWN:YMCONG 2009/07/01 CHKD:SKANG 2009/07/08 APPR:MLONG 2009/07/16	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY ATSEE	DATE 2003/10/14	TITLE MGRID, SHROUDED HEADER W/CAP, IN TUBE AND T&R SMT				
			4 PLACES	± ---	± ---	CHECKED BY KCLING	DATE 2003/11/07					
			3 PLACES	± ---	± ---	APPROVED BY SKTOH	DATE 2003/11/07					
			2 PLACES	± 0.2	± ---	MOLEX MOLEX INCORPORATED		MOLEX INCORPORATED				
			1 PLACE	± ---	± ---							
			ANGULAR ± 3 °		MATERIAL NO.	DOCUMENT NO.	SHEET NO.					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87832-008		2 OF 3			
B4	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

EMBOSSED CARRIER TAPE 'C'

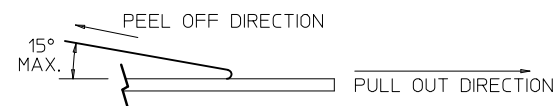


NOTES:

1. LEADER AND TRAILER TAPE



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



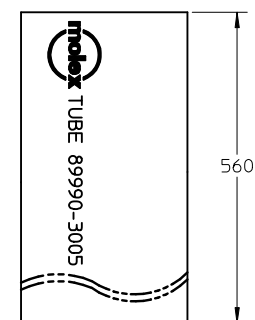
3. PACKAGING STANDARD IS AS PER EIA-481.

4. TAPE AND REEL QUANTITY = SEE TABLE ON SHEET 2

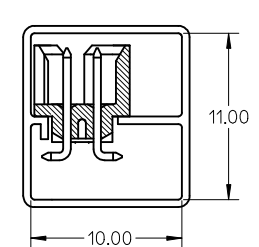
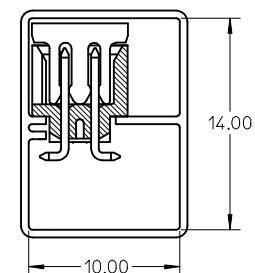
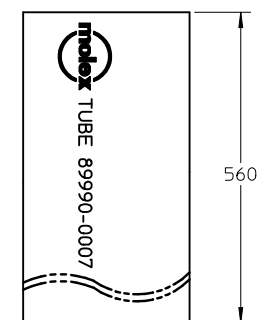
5. THE TAPE IS TREATED FOR ANTI-STATIC.

P/N W/CAP IN TUBE TUBE : 89990-3005	P/N W/O CAP IN TUBE TUBE : 89990-0007
87832-0616	87832-0612
87832-0816	87832-0812
87832-1416	87832-1412
87832-1816	87832-1812
87832-2016	87832-2012
87832-2616	87832-2612
87832-3016	87832-3012
87832-3416	87832-3412
87832-4016	87832-4012
87832-5016	87832-5012
87832-1016	87832-1012
87832-1616	87832-1612

ASSY WITH CAP TUBE



ASSY WITHOUT CAP IN TUBE



ADD IN NOTES NO.12	QUALITY SYMBOLS
EC NO: S2009-0943	▽=0
DRWN:YCHONG	▽=0
CHKD:SKANG	
APPR:MLONG	
REV	

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

DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY	NTS	METRIC	
DRAWN BY	DATE	TITLE	
ATSEE	2003/10/14	MGRID, SHROUDED HEADER W/CAP, IN TUBE AND T&R SMT	
CHECKED BY	DATE		
KCL ING	2003/11/07		
APPROVED BY	DATE		
SKTOH	2003/11/07		
MATERIAL NO.			
SEE TABLE			

MOLEX INCORPORATED	SHEET NO.
SD-87832-008	3 OF 3
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