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Part Number: [0879833044](#)
Status: **Active**
Overview: milligrid
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, Shrouded, Lead-free, 44 Circuits, 0.38µm (15µ") Gold (Au) Plating, Center Polarization Slot, Cap, without PCB Locator, Metal Latch, Embossed Tape on Reel

Documents:

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

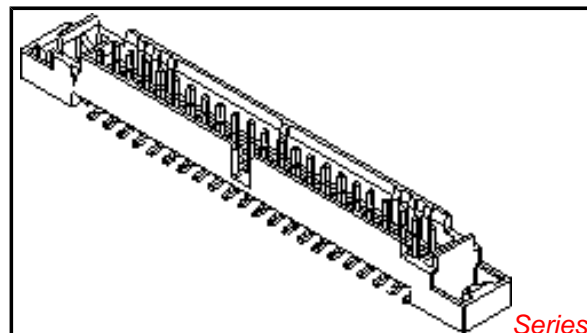


image - Reference only

Series

Agency Certification

CSA LR19980
 UL E29179

General

Product Family PCB Headers
 Series 87983
 Application Wire-to-Board
 Comments Contact Molex for application in automotive industry
 Overview milligrid
 Product Name Milli-Grid™

Physical

Breakaway No
 Circuits (Loaded) 44
 Circuits (maximum) 44
 Color - Resin Black
 Durability (mating cycles max) 30
 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 Yes
 Material - Plating Mating Gold
 Material - Plating Termination Tin
 Material - Resin High Temperature Thermoplastic
 Number of Rows 2
 Orientation Vertical
 PCB Locator No
 PCB Retention None
 Packaging Type Embossed Tape on Reel
 Pitch - Mating Interface (in) 0.079 In
 Pitch - Mating Interface (mm) 2.00 mm
 Plating min: Mating (µin) 15.2
 Plating min: Mating (µm) 0.38
 Plating min: Termination (µin) 76.4
 Plating min: Termination (µm) 1.91
 Polarized to Mating Part Center Slot
 Polarized to PCB Yes
 Robotic Placement Pick and Place Cap
 Shrouded Fully
 Stackable No
 Temperature Range - Operating -40°C to +85°C
 Termination Interface: Style Surface Mount

EU RoHS

ELV and RoHS Compliant
REACH SVHC Contains SVHC: No
Halogen-Free Status

China RoHS



Not Halogen-Free
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

[87983Series](#)

Mates With

[87985 Milli-Grid™ Receptacle](#)

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**

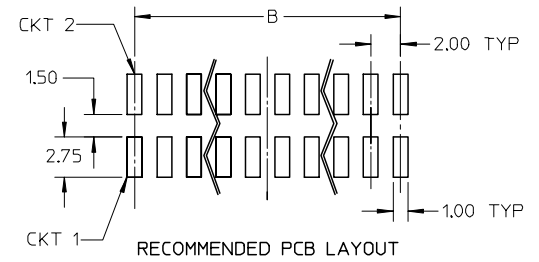
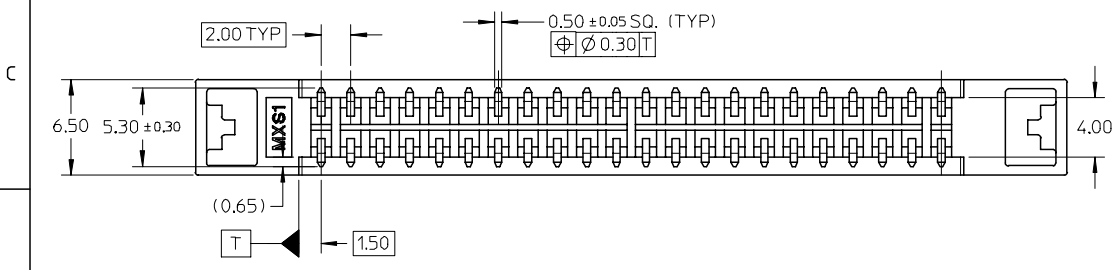
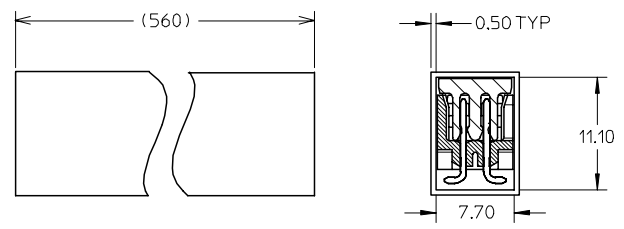
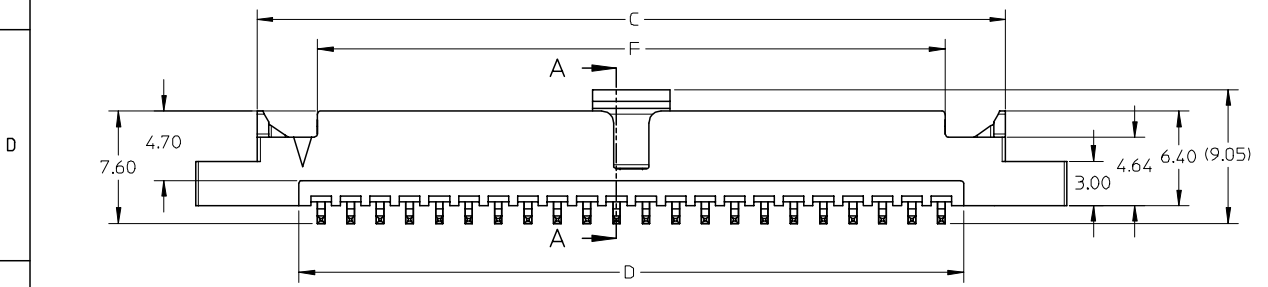
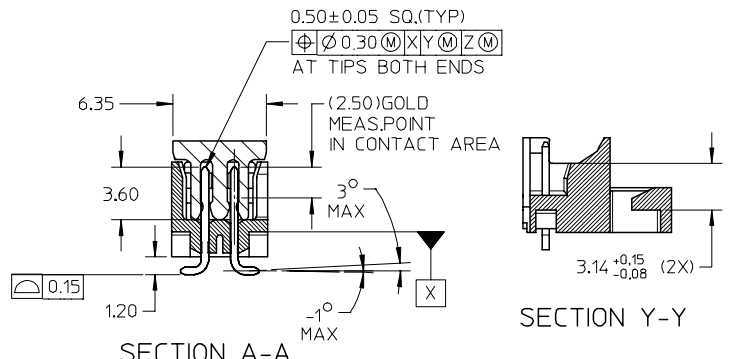
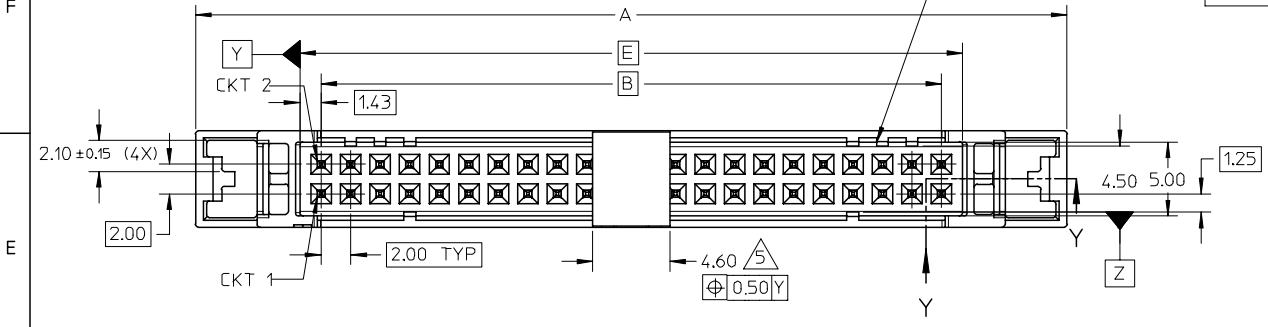
Sales Drawing	SD-87983-007
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This document was generated on 05/26/2010

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10 9 8 7 6 5 4 3 2 1

ASSY P/N PACKED IN TAPE & REEL	ASSY P/N PACKED IN TUBE	CKT SIZE	DIMENSION					
			A	B	C	D	E	F
87983-3044	87983-3144	44	59.00	42.00	50.65	45.00	44.85	42.50



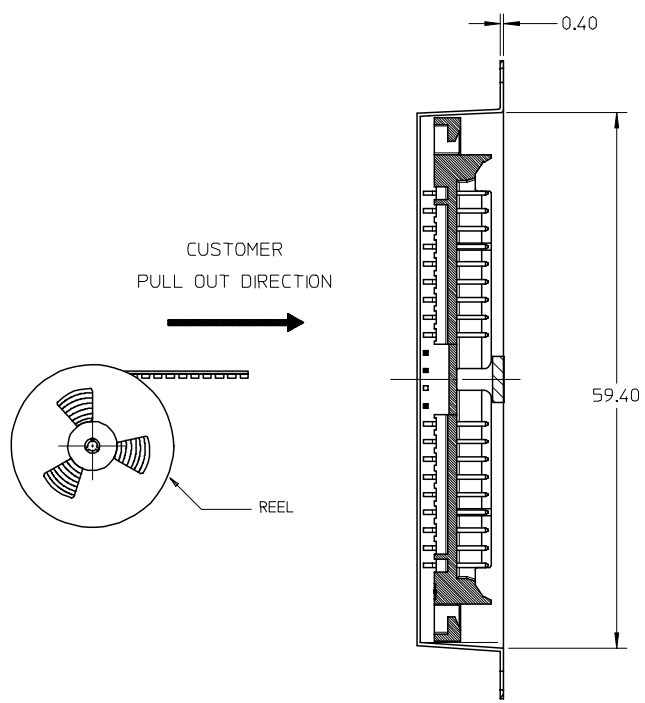
- NOTES:
- MATERIAL :
HOUSING : PA, GLASS FILLED, UL94V-0, COLOR BLACK.
PIN : PHOSPHOR BRONZE.
 - PLATING: 0.38µM GOLD IN CONTACT AREA AND 1.88µM MIN. TIN IN SOLDER TAIL AREA OVER 1.27µM MIN. NICKEL OVERALL.
 - FOR ILLUSTRATION PURPOSES, 44 CIRCUIT SIZE WAFER IS SHOWN.
 - THIS IS A LEAD-FREE PRODUCT.
 - POSITION OF CAP TO BE LOCATED AT CENTER OF DIMENSION 'A' REGARDLESS OF CIRCUIT SIZE.
 - PRODUCT SPECIFICATION : PS-87981-018
 - PRODUCTS ARE MATED WITH 87985 SERIES.

ADD PART NUMBER EC NO: S2007-0266 DRWN:SKANG CHKD:MLONG APPR:SKTOH 2006/10/05 2006/10/09 2006/10/09	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
			4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	2 PLACES ± 0.2 ± ---	1 PLACE ± --- ± ---	ANGULAR ± 3 °	DRAWN BY YLQIAO	DATE 2005/06/30
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		APPROVED BY PTLIM		DATE 2005/07/13	MOLEX INCORPORATED	
A2			SIZE A3		MATERIAL NO. PTLIM		DATE 2005/07/13	DOCUMENT NO. SD-87983-007	SHEET NO. 1 OF 2

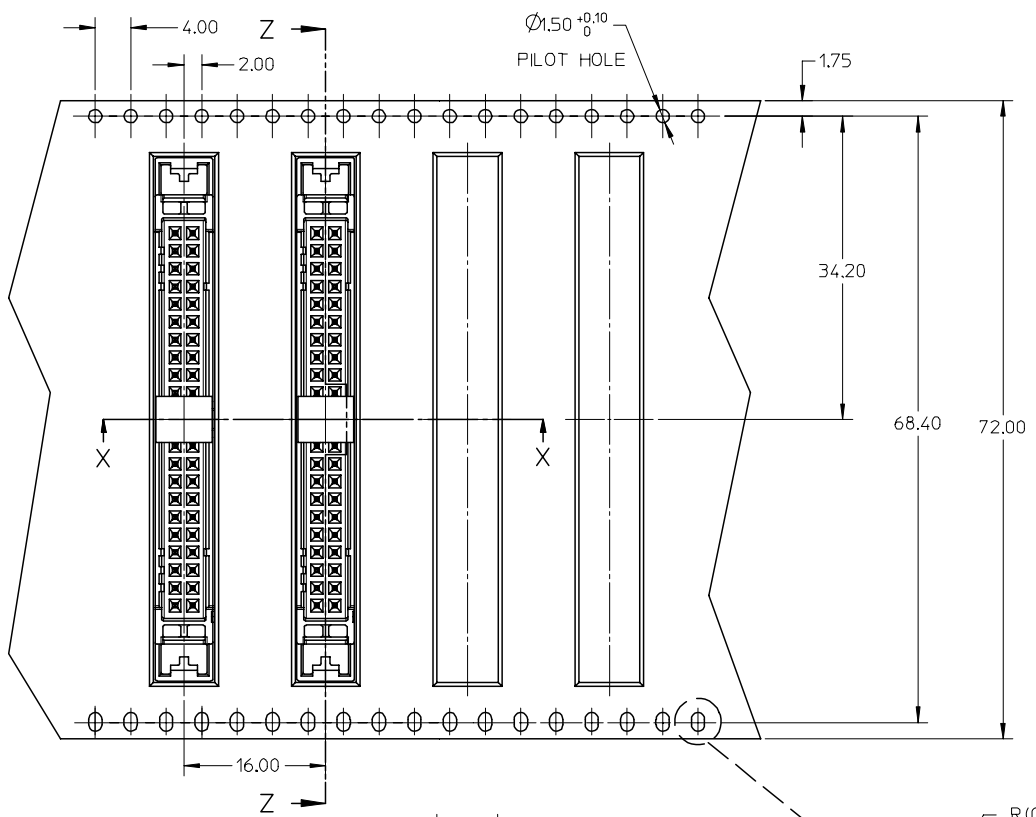
9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

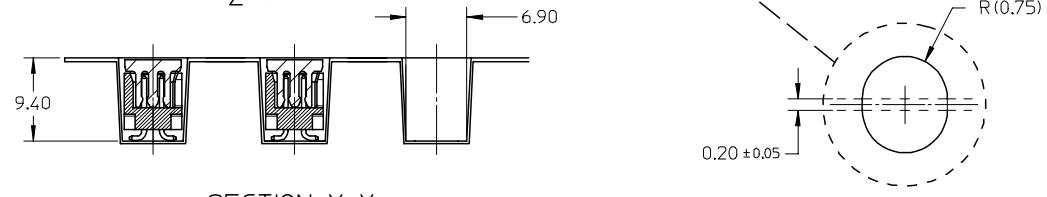
F
E
D
C
B
A



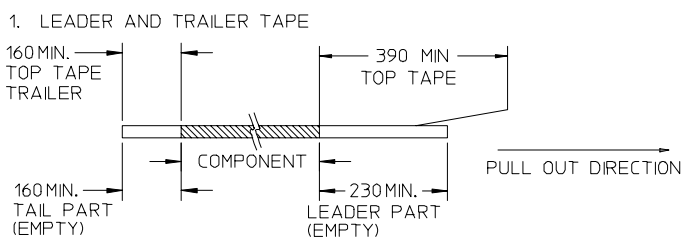
SECTION Z-Z



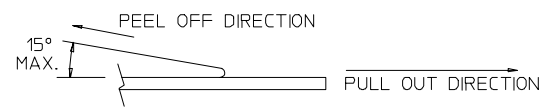
SECTION X-X



NOTES:



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 & REEL QUANTITY = 400 PCS/REEL
- 5. THE TAPE IS TREATED FOR ANTI-STATIC.

ADD PART NUMBER EC NO: S2007-0266 DRWNS:KANG CHKD:M.LONG APPR:SKTOH	2006/10/05 2006/10/09 2006/10/09	DESCRIPTION A2	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
						DRAWN BY YLQ1A0	DATE 2005/06/30	TITLE MGRID, SHROUDED HEADER W/EMBOSSD M/LATCH SLOT SMT						
						CHECKED BY BOKOK	DATE 2005/07/13	APPROVED BY PTL IM				DATE 2005/07/13	MOLEX INCORPORATED	
						ANGULAR ± 3°		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87983-007		SHEET NO. 2 OF 2		
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								

9 8 7 6 5 4 3 2 1