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Part Number: [0878331033](#)
Status: **Active**
Overview: [milligrid](#)
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Right Angle, Shrouded, Lead-free, 10 Circuits, 0.38µm (15µ") Gold (Au) Plating, without PCB Locator, with Locking Window, without Center Polarization Slot, Tube

Documents:
[3D Model](#) [Product Specification PS-87831-027 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

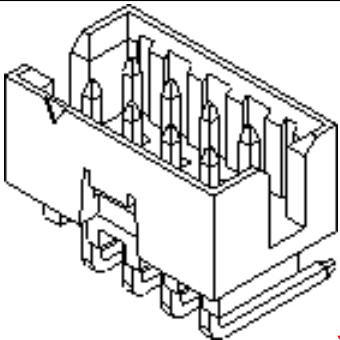
CSA LR19980
UL E29179

General

Product Family PCB Headers
Series [87833](#)
Application Wire-to-Board
Comments Contact Molex for application in automotive industry
Overview [milligrid](#)
Product Name Milli-Grid™

Physical

Breakaway No
Circuits (Loaded) 10
Circuits (maximum) 10
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 Yes
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin Nylon
Number of Rows 2
Orientation Right Angle
PC Tail Length (in) 0.085 In
PC Tail Length (mm) 2.16 mm
PCB Locator No
PCB Retention None
PCB Thickness Recommended (in) 0.062 In
PCB Thickness Recommended (mm) 1.60 mm
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



*Series
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
[87833Series](#)

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

Polarized to Mating Part	Yes
Polarized to PCB	No
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Through Hole
Electrical	
Current - Maximum per Contact	2A
Voltage - Maximum	125V
Material Info	
Reference - Drawing Numbers	
Product Specification	PS-87831-027
Sales Drawing	SD-87833-037

This document was generated on 05/26/2010

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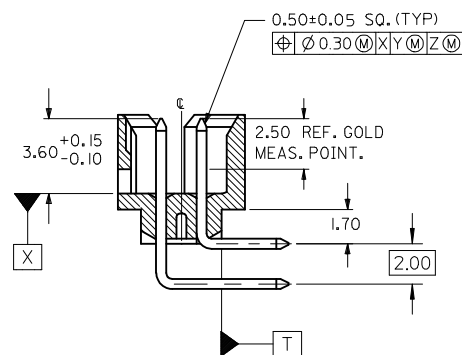
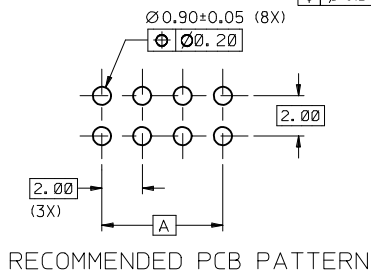
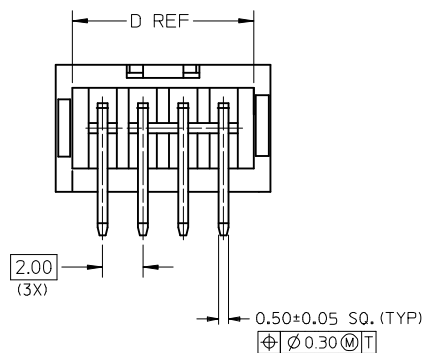
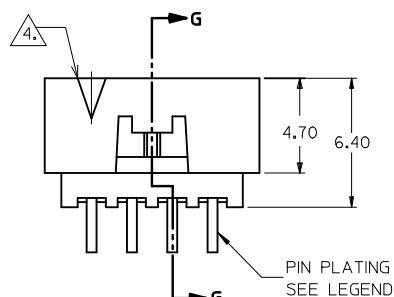
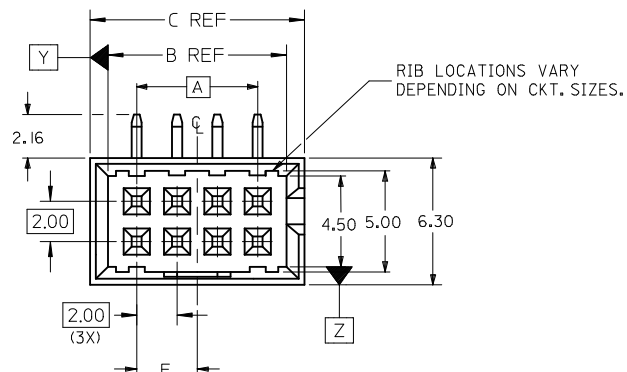
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SECTION G-G

PART NUMBER LEGEND

87833 - ** 3 *

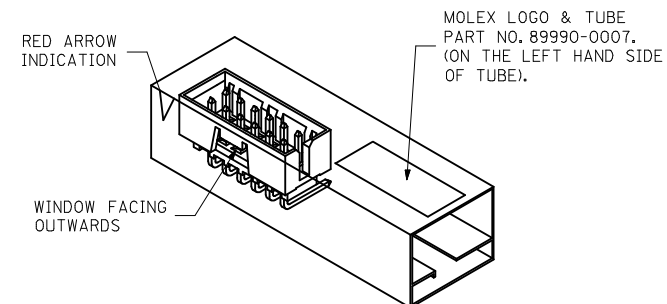
CKT SIZE

PLATING OPTION

3 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN.
TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN.
NICKEL OVERALL.

4 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN.
TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN.
NICKEL OVERALL.

PART NO.	CKT SIZE	DIMENSION				
		A	B	C	D	E
87833-043*	4	2.00	4.85	6.65	5.00	1.00
87833-063*	6	4.00	6.85	8.65	7.00	2.00
87833-083*	8	6.00	8.85	10.65	9.00	3.00
87833-103*	10	8.00	10.85	12.65	11.00	4.00
87833-123*	12	10.00	12.85	14.65	13.00	5.00



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

NOTES:

- FOR ILLUSTRATION PURPOSES, 8 CKT. SIZE WAFER IS SHOWN.
- MATERIAL:
HOUSING: 30% GF, NYLON 46
UL 94v-0, COLOR BLACK
PIN : 0.50MM SQ.PHOSPHOR BRONZE
- PIN PUSHOUT FORCE 0.91KG MIN.
- CKT 4 & 6 HAS NO IDENTIFICATION TAG.
- PRODUCT SPECIFICATION PS-87831-027 APPLIES.
- THIS HEADER MATES WITH MOLEX:
a) CRIMP RECEPTACLE HOUSING, 51110 SERIES WITH CRIMP TERMINAL, 50394 SERIES.
b) 2MM MILLIGRID DUAL ROW IDT, 87568 SERIES.
- PARTS TO BE PACKED IN TUBE WITH MOISTURE BARRIER BAG.
- NO CENTRE POLARIZATION SLOT FOR CKT 4 AND 6.

REV	DESCRIPTION	DATE	BY	CHECKED BY	APPROVED BY	MATERIAL NO.	DOCUMENT NO.	SHEET NO.
A3	ADD IN NOTES NO. 8 EC NO: S2009-0964 DRWN: YMC HONG CHKD: SKANG APPR: MLONG	2009/07/01 2009/07/08 2009/07/15						1 OF 1

QUALITY SYMBOLS
▽=0
▽=0

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	
MM ONLY	
DRAWN BY	DATE
TATSEE	2004/09/08
CHECKED BY	DATE
KCL ING	2004/09/23
APPROVED BY	DATE
SKTOH	2004/09/23
MATERIAL NO.	
SEE TABLE	
SIZE	THIS DRAWING CONTAINS INCORPORATED AND
A3	

MGRID, SHROUDED HEADER W/LOCKING FEATURE & SINGLE SIDE SLOT, R/A	
MOLEX INCORPORATED	
SD-87833-037	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

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