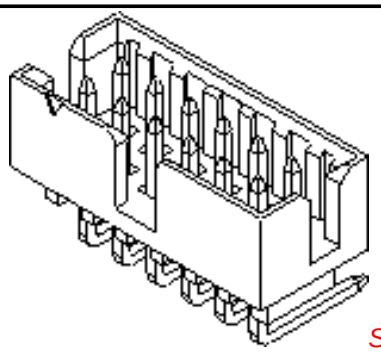
This document was generated on 05/25/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0878334819
Status: Active
Overview: milligrid
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Right Angle, Fully Shrouded, Lead-free, 48 Circuits, Gold (Au) Flash Plating, without PCB Locator, without Locking Window, Center Polarization Slot, Tube



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-87831-027 (PDF)
RoHS Certificate of Compliance (PDF)

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)	48
Circuits (maximum)	48
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	None
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)	2
Plating min: Mating (µm)	0.05
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
Surface Mount Compatible (SMC)	Yes

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

Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Through Hole

Electrical

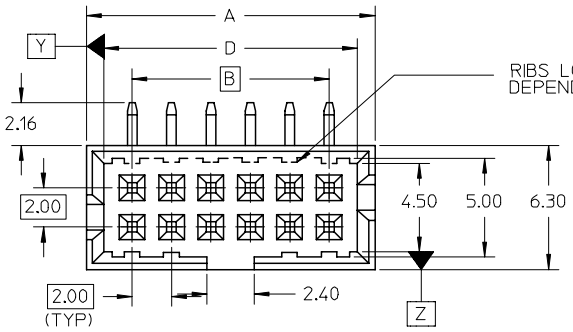
Current - Maximum per Contact	2A
Voltage - Maximum	125V

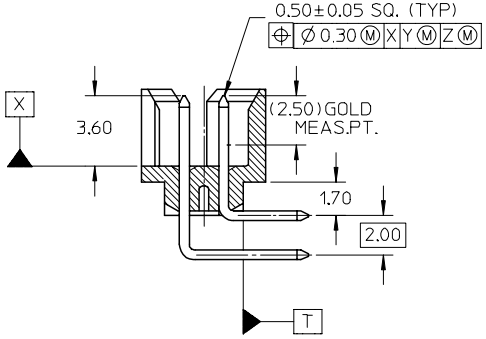
Material Info

Reference - Drawing Numbers

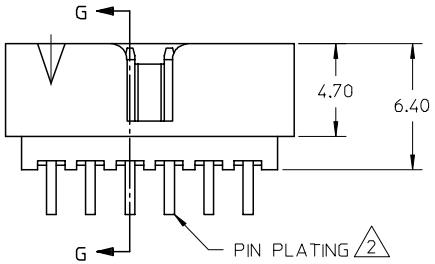
Product Specification	PS-87831-027

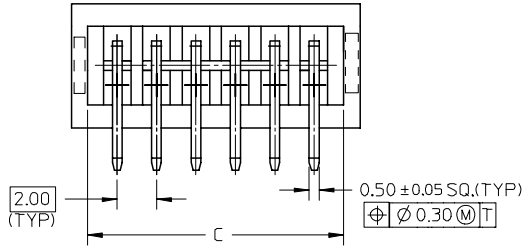
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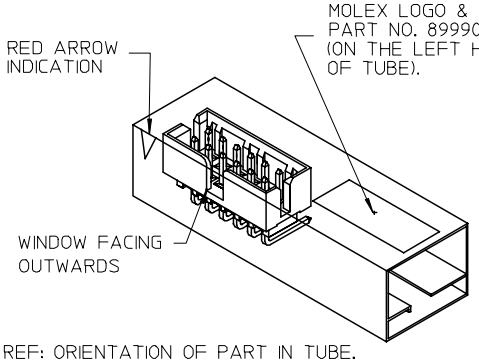




SECTION G-G

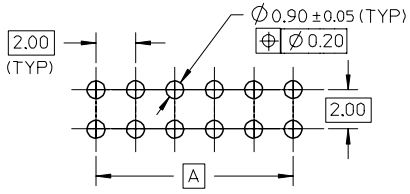






REF: ORIENTATION OF PART IN TUBE.

(FOR THE REFERENCE OF PART/TUBE ASSEMBLY.)



RECOMMENDED PCB PATTERN

PART NO.	CKT SIZE	DIMENSION			
		A	B	C	D
87833-0419	4	6.65	2.00	5.00	4.85
87833-0619	6	8.65	4.00	7.00	6.85
87833-0819	8	10.65	6.00	9.00	8.85
87833-1019	10	12.65	8.00	11.00	10.85
87833-1219	12	14.65	10.00	13.00	12.85
87833-1419	14	16.65	12.00	15.00	14.85
87833-1619	16	18.65	14.00	17.00	16.85
87833-1819	18	20.65	16.00	19.00	18.85
87833-2019	20	22.65	18.00	21.00	20.85
87833-2219	22	24.65	20.00	23.00	22.85
87833-2419	24	26.65	22.00	25.00	24.85
87833-2619	26	28.65	24.00	27.00	26.85
87833-2819	28	30.65	26.00	29.00	28.85
87833-3019	30	32.65	28.00	31.00	30.85
87833-3219	32	34.65	30.00	33.00	32.85
87833-3419	34	36.65	32.00	35.00	34.85
87833-3619	36	38.65	34.00	37.00	36.85
87833-3819	38	40.65	36.00	39.00	38.85
87833-4019	40	42.65	38.00	41.00	40.85
87833-4219	42	44.65	40.00	43.00	42.85
87833-4419	44	46.65	42.00	45.00	44.85
87833-4619	46	48.65	44.00	47.00	46.85
87833-4819	48	50.65	46.00	49.00	48.85
87833-5019	50	52.65	48.00	51.00	50.85

NOTES:

1. MATERIAL :
   HOUSING : 30% G.F., NYLON 46, UL94V-0, COLOR BLACK.
   PIN : 0.50MM SQ. PHOSPHOR BRONZE.
2. PLATING :
   (2 - 5)um/ (0.05 - 0.13)uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN.
   TIN IN SOLDER TAIL AREA OVER 1.25um/50uin MIN. NICKEL OVERALL.
3. PRODUCT SPECIFICATION PS-87831-027 APPLIES.
4. THIS HEADER MATES WITH MOLEX:
   a) CRIMP RECEPTACLE HOUSING, 51110 SERIES
      WITH CRIMP TERMINAL, 50394 SERIES.
   b) 2MM MILLIGRID DUAL ROW IDT, 87568 SERIES.
5. PARTS TO BE PACKED IN TUBE WITH MOISTURE BARRIER BAG

ADD MOIST BAG NOTE
EC NO: S2007-0931 2007/05/30
DRWN:GMENARLY 2007/06/01
CHKD:SKANG 2007/06/01
APPR:MLONG
DESCRIPTION
A5
REV

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
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: ATSEE DATE: 2003/10/27
CHECKED BY: KCLING DATE: 2003/11/07
APPROVED BY: SKTOH DATE: 2003/11/07
MATERIAL NO.: SEE TABLE

TITLE: MGRID, SHROUDED HEADER WITH SLOTS AND STANDOFF R/A

MOLEX INCORPORATED

DOCUMENT NO.: SD-87833-013
SHEET NO.: 1 OF 1

SIZE A3

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