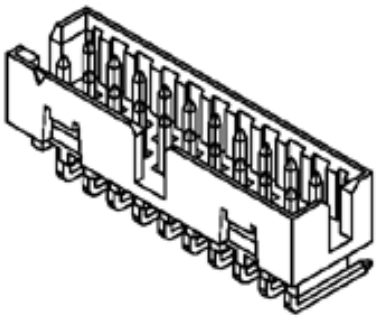
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PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0878332052
Status: Active
Overview: milligrid
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Right Angle, Shrouded, Lead-free, 20 Circuits, 0.05µm (2µ") Gold (Au) Plating, without PCB Locator, with Locking Windows, Center Polarization Slot, Tube



Series image - Reference only

Documents:
Drawing (PDF)
RoHS Certificate of Compliance (PDF)
Product Specification PS-87831-027 (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)	20
Circuits (maximum)	20
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	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)	0.118 In
PC Tail Length (mm)	3.00 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

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	Side Slots (2)
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

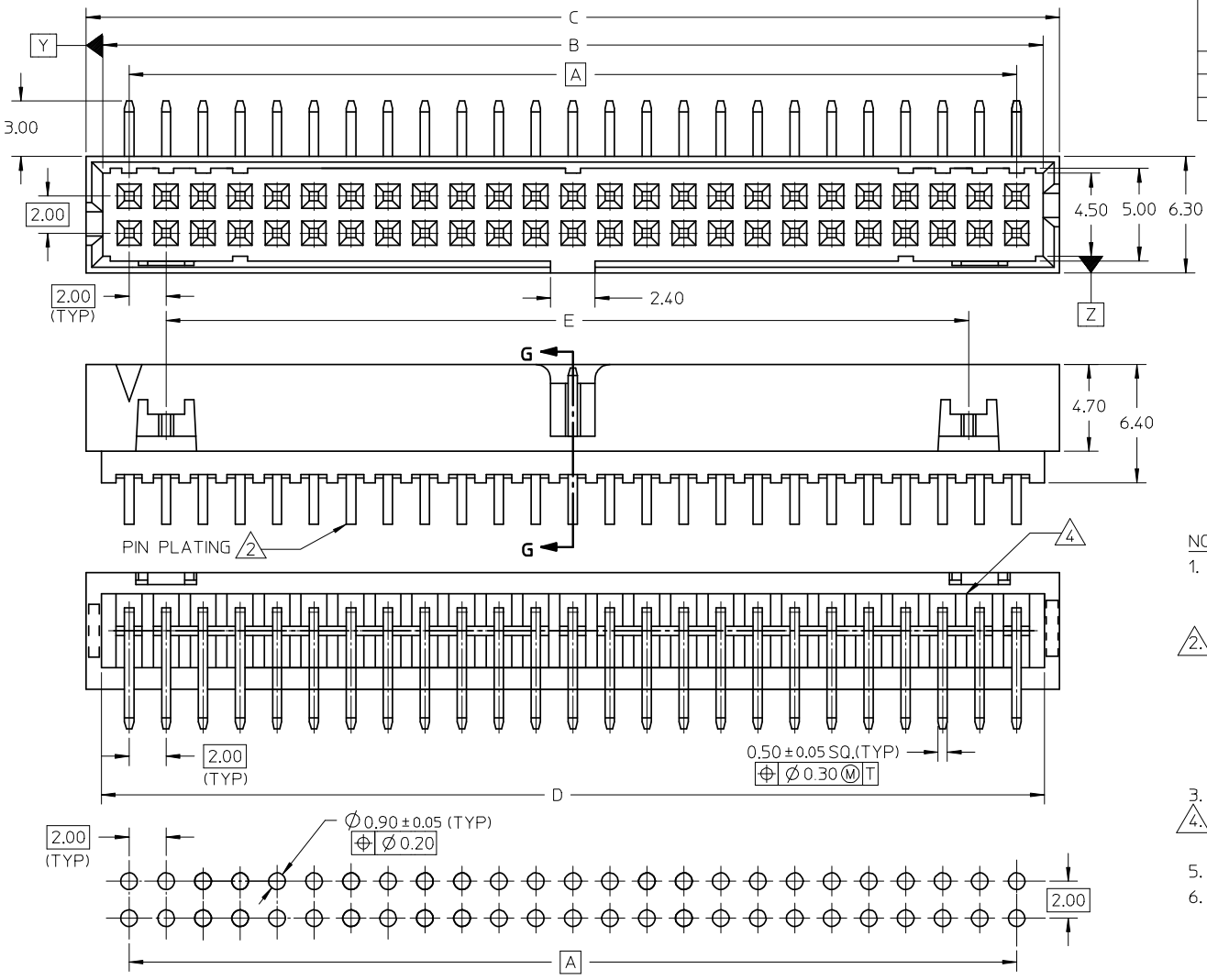
Solder Process Data

Duration at Max. Process Temperature (seconds)	11
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	265

Material Info

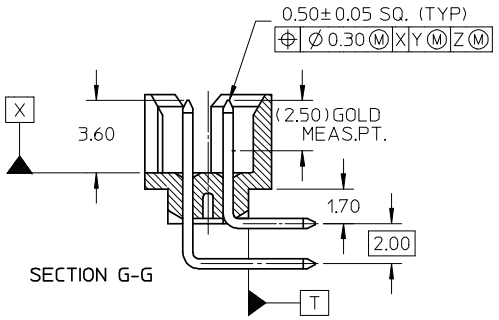
Reference - Drawing Numbers

Product Specification	PS-87831-027
Sales Drawing	SD-87833-015



RECOMMENDED PCB PATTERN

PART NO.	CKT SIZE	DIMENSION					PLATING OPTION 2
		A	B	C	D	E	
87833-2052	20	18.00	20.85	22.65	21.00	14.00	2
87833-5050	50	48.00	50.85	52.65	51.00	44.00	1
87833-5052	50	48.00	50.85	52.65	51.00	44.00	2



NOTES:

1. MATERIAL :
   HOUSING : 30% G.F., NYLON 46, UL94V-0, COLOR BLACK.
   PIN : 0.50MM SQ.PHOSPHOR BRONZE.
2. PLATING :
   1. 0.38um GOLD IN CONTACT AREA AND 1.88um MIN. TIN IN SOLDER TAIL AREA OVER 1.27um MIN. NICKEL OVERALL.
   2. 0.05um MIN. TO 0.13um MAX. GOLD IN CONTACT AREA AND 1.88um MIN. TIN IN SOLDER TAIL AREA OVER 1.27um MIN. NICKEL OVERALL.
3. PRODUCT SPECIFICATION PS-87831-027 APPLIES.
4. LINKWAYS VARIES FROM PART TO PART BECAUSE OF DIFFERENT MOLD.
5. PARTS TO BE PACKED IN TUBE.
6. THIS HEADER MATES WITH MOLEX:
   a) CRIMP RECEPTACLE HOUSING, 51110 SERIES WITH CRIMP TERMINAL, 50394 SERIES.
   b) 2MM MILLIGRID DUAL ROW IDT, 87568 SERIES.
7. PARTS TO BE PACKED IN TUBE WITH MOISTURE BARRIER BAG.

PDR#S-001811-00-00
EC NO: S2008-1107
DRWN:SKANG 2008/06/10
CHKD:ATSEE 2008/06/10
APPR:MLONG 2008/06/11
DESCRIPTION
A4
REV

QUALITY SYMBOLS
▼=0
▽C=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

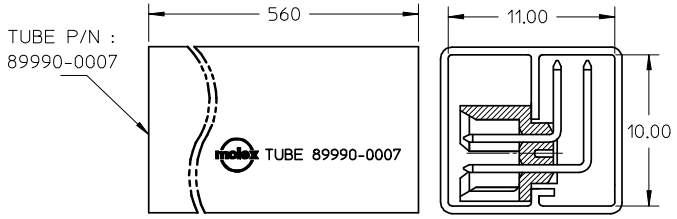
DRAWN BY: ATSEE DATE: 2003/10/27
CHECKED BY: KCLING DATE: 2003/11/07
APPROVED BY: SKTOH DATE: 2003/11/07

TITLE: MGRID, SHROUDED HDR, R/A W/SLOTS/STANDOFF & LONG SOLDERTAIL 3.00MM

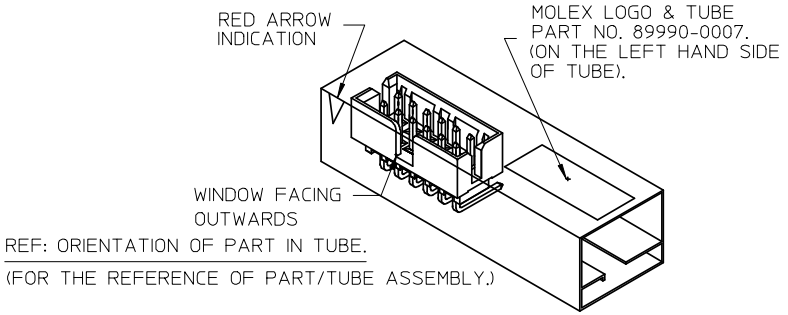
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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87833-015
SHEET NO.: 1 OF 2
SIZE: A3

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REF: ORIENTATION OF PART IN TUBE.



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

PDR#S-001811-00-00	DESCRIPTION		
EC NO: S2008-1107	REV		
DRWN:SKANG 2008/06/10			
CH'KD:ATSEE 2008/06/10			
APPR:MLONG 2008/06/11			
A4			

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

TITLE: MGRID, SHROUDED HDR, R/A W/SLOTS/STANDOFF & LONG SOLDERTAIL 3.00MM

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87833-015
SHEET NO.: 2 OF 2
SIZE: A3

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