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Product Type

Part Number

Product Name

Competitor

Datasheet  
PCB Headers

Switch Language

English

87833-1420

Datasheet

Drawing (PDF)

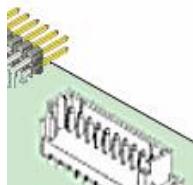
Product Specification  
(PDF)

3D Model (CAD)

## Need Assistance?

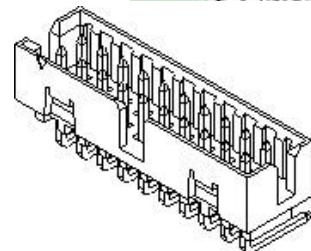
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## 87833-1420

2.00mm (.079") Pitch Milli-Grid™ Header, Right Angle, Shrouded, Lead-free, 14 Circuits, 0.38µm (15µ") Gold (Au) Plating, without PCB Locator, with Locking Windows, Center Polarization Slot, Tube

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<u>Status</u>	Active
<u>Orientation</u>	Right Angle
<u>Pitch / Center Spacing</u>	2.00mm (.079")
<u>Circuits / Positions</u>	14
<u>Rows</u>	2
<u>Product Name</u>	Milli-Grid™
<u>Stackable</u>	No
<u>Breakaway</u>	No
<u>Shrouded</u>	Yes
Pin Header	Yes

## ENVIRONMENT

<u>RoHS Status</u>	ELV and RoHS Compliant
<u>Lead-free Process Capability</u>	SMC & Wave Capable (TH only)
<u>Process Temperature max. (C)</u>	260

## Features and Benefits

- Fully shrouded to protect pins during mating/unmating
- Center slot for polarization
- Front windows for mechanical locking
- Center polarization slot (8 to 12 circuits)
- Center polarization slot and front windows (14 to 50 circuits)

**Contact Molex for application in automotive industry**

<b>RELATED PRODUCTS</b>	
<u>Polarized to Mating Part</u>	Center Slot, Side Slots (2)
<u>Lock to Mating Part</u>	Windows (2)
<u>Mates With</u>	<a href="#">50394 Wire-to-Board Terminals</a> , <a href="#">51110 Wire-to-Board Crimp Housing</a> , <a href="#">79107 Board-to-Board Top Entry Through Hole Receptacle</a> , <a href="#">79108 Board-to-Board FFC/FPC Top Entry Through Hole Receptacle</a> , <a href="#">79109 Board-to-Board Top/Bottom Entry SMT Receptacle</a> , <a href="#">87381 Board-to-Board Top Entry SMT Receptacle</a> , <a href="#">87568 Wire-to-Board IDT Housings</a>

## MOUNTING

<u>PCB Mounting</u>	Through Hole
<u>Surface Mount Compatible (SMC)</u>	Yes
<u>Polarized to PCB</u>	No
<u>PCB Retention</u>	None
<u>PCB Locator</u>	No
<u>PCB Thickness</u>	1.6mm (.062")
<u>PC Tail Length</u>	2.16mm (.085")
<u>Staggered Tails</u>	No
<u>PCB Layout</u>	Dual Row Grid

## ELECTRICAL

<u>Current-max [amps]</u>	2.0A
<u>Voltage-max [volts]</u>	125V
<u>Withstanding Voltage</u>	1000V AC
<u>Contact Resistance [ohms]</u>	30 milliohms max.

<u>Insulation Resistance [ohms]</u>	1000 Megohms min.
<b>PHYSICAL</b>	
<u>Housing Material</u>	PA Polyamide (Nylon) 4/6
<u>Color</u>	Black
<u>Flammability</u>	UL 94V-0
<u>Contact</u>	Phosphor Bronze (CuSn)
<u>Plating Contact</u>	0.38µm (15µ") Gold (Au)
<u>Plating Tail</u>	Tin (Sn)
<u>Under Plating</u>	Nickel (Ni)
<u>Durability [mating cycles] min.</u>	100 cycles
<u>Temperature Range</u>	-55°C to +105°C
Contact Retention Force-min. (per circuit)	8.32N (1.87 lb)
<u>Pin Size</u>	0.50mm (.020"), Square
<u>Designed In</u>	Millimeters
<b>REFERENCE</b>	
<u>Product Specification</u>	PS-87831-027
<u>Packaging</u>	Tube
<u>Comment</u>	Contact Molex for application in automotive industry
<u>UL File Number</u>	E29179
<u>CSA File Number</u>	LR19980
<u>990 Catalog Page</u>	A-23
<u>Molex Series</u>	87833

**For all product dimensions, please refer to Drawing (PDF).**

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