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**Part Number:** [0878331420](#)

**Status:** **Active**

**Overview:**

**Description:** 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

**Documents:**

[3D Model](#)  
[Drawing \(PDF\)](#)

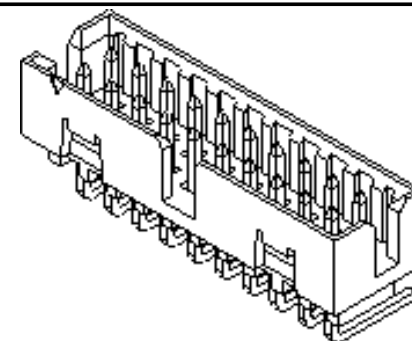
[Product Specification PS-87831-027 \(PDF\)](#)  
[RoHS Certificate of Compliance \(PDF\)](#)

**General**

Product Family	PCB Headers
Series	87833
Application	Wire-to-Board
Comments	Contact Molex for application in automotive industry
Overview	Milli-Grid&#153;
Product Name	Milli-Grid™

**Physical**

Breakaway	No
Circuits (Loaded)	14
Circuits (maximum)	14
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
Polarized to Mating Part	Side Slots (2)
Polarized to PCB	No
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	Yes



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](mailto:productcompliance@molex.com)  
Please visit the [Contact Us](#) section for any  
non-product compliance questions.

**Search Parts in this Series**

[87833 Series](#)

**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**

CSA LR19980  
Current - Maximum 2A  
UL E29179  
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-87833-010

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