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**Part Number:** [0878331620](#)

**Status:** **Active**

**Overview:** [Milli-Grid™ Connector System](#)

**Description:** Milli-Grid™ Header, Right Angle, Shrouded, Lead-Free, 16 Circuits, 0.38µm Gold (Au) Plating, without PCB Locator, with Locking Windows, Center Polarization Slot, Tube

**Documents:**

[3D Model](#)

[Drawing \(PDF\)](#)

[Product Specification PS-87831-027 \(PDF\)](#)

[Packaging Specification PK-87831-001 \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

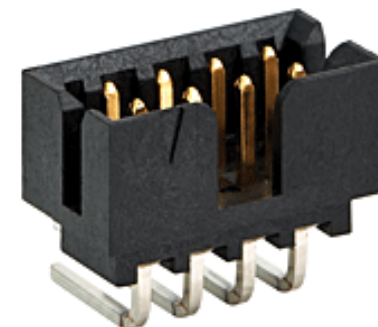
CSA	LR19980
UL	E29179

**General**

Product Family	PCB Headers
Series	<a href="#">87833</a>
Application	Signal, Wire-to-Board
Comments	Contact Molex for application in automotive industry
Overview	<a href="#">Milli-Grid™ Connector System</a>
Product Name	Milli-Grid™
UPC	822348189137

**Physical**

Breakaway	No
Circuits (Loaded)	16
Circuits (maximum)	16
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	Yes
Lock to Mating Part	Yes
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	Nylon
Net Weight	0.859/g
Number of Rows	2
Orientation	Right Angle
PC Tail Length	2.16mm
PCB Locator	No
PCB Retention	None
PCB Thickness - Recommended	1.60mm
Packaging Type	Tube
Pitch - Mating Interface	2.00mm
Pitch - Termination Interface	2.00mm
Plating min - Mating	0.381µm
Plating min - Termination	1.905µm
Polarized to PCB	No
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +105°C



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
ED/21/2016 (20 June  
2016)

**Halogen-Free**

**Status**

**Not Low-Halogen**

**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.

China ROHS

ELV

Green Image

Not Relevant

**Search Parts in this Series**

[87833](#) Series

**Mates With**

Milli-Grid™ Vertical Through Hole  
Receptacle [79107](#) , [78787](#) , Milli-Grid™  
Flex-to-Board Vertical Receptacle [79108](#)  
, Milli-Grid™ Vertical Surface Mount  
Receptacle [79109](#) , [78788](#) , Milli-Grid™  
Crimp Housing [51110](#) , Milli-Grid™ Cable-to-  
Board Receptacle [87568](#)

Termination Interface: Style Through Hole

**Electrical**

Current - Maximum per Contact 2.0A  
Voltage - Maximum 125V

**Solder Process Data**

Duration at Max. Process Temperature (seconds) 011  
Lead-free Process Capability SMC&WAVE  
Max. Cycles at Max. Process Temperature 001  
Process Temperature max. C 265

**Material Info**

**Reference - Drawing Numbers**

Packaging Specification PK-87831-001  
Product Specification PS-87831-027  
Sales Drawing SD-87833-0001

This document was generated on 09/21/2016

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