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**Part Number:** [0878320823](#)

**Status:** **Active**

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

**Description:** Milli-Grid™ Header, Surface Mount, Vertical, Shrouded, Lead-Free, 8 Circuits, 0.76µm Gold (Au) Plating, with Pick-and-Place Cap, without Locking Window, with Center Polarization Slot, PCB Locator, Tube

**Documents:**

[3D Model](#)

[Drawing \(PDF\)](#)

[Product Specification PS-87831-027-001 \(PDF\)](#)

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

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

**Agency Certification**

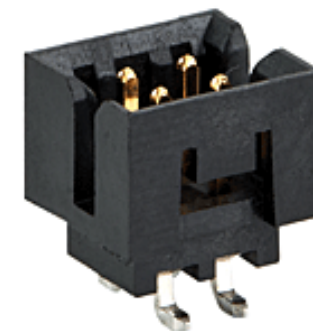
CSA LR19980  
UL E29179

**General**

Product Family PCB Headers  
Series [87832](#)  
Application Signal, Wire-to-Board  
Comments With Cap|Contact Molex for application in automotive industry  
Overview [Milli-Grid™ Connector System](#)  
Product Name Milli-Grid™  
UPC 883906600341

**Physical**

Breakaway No  
Circuits (Loaded) 8  
Circuits (maximum) 8  
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 390.936/mg  
Number of Rows 2  
Orientation Vertical  
PCB Locator No  
PCB Retention None  
Packaging Type Tube  
Pitch - Mating Interface 2.00mm  
Pitch - Termination Interface 2.00mm  
Plating min - Mating 0.762µm  
Plating min - Termination 1.905µm  
Polarized to PCB No  
Robotic Placement Pick and Place Cap  
Shrouded Fully  
Stackable No  
Surface Mount Compatible (SMC) Yes



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per  
-ED/01/2017 (12  
January 2017)

**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 Green Image  
ELV Not Relevant  
RoHS Phthalates Not Contained

**Search Parts in this Series**

[87832 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](#)

Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Surface Mount

**Electrical**

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

**Solder Process Data**

Duration at Max. Process Temperature (seconds)	010
Lead-free Process Capability	REFLOW
Max. Cycles at Max. Process Temperature	001
Process Temperature max. C	260

**Material Info****Reference - Drawing Numbers**

Packaging Specification	PK-87831-001
Product Specification	PS-87831-027-001
Sales Drawing	SD-87832-0001

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