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**Part Number:** [0878321014](#)  
**Status:** **Active**  
**Overview:** [Milli-Grid™ Connector System](#)  
**Description:** Milli-Grid™ Header, Surface Mount, Vertical, Shrouded, Lead-Free, 10 Circuits, 0.38µm Gold (Au) Plating, without Locking Window, Center Polarization Slot, Cap, without PCB Locator, Embossed Tape on Reel

**Documents:**

<a href="#">3D Model</a>	<a href="#">Packaging Specification PK-87831-001-001 (PDF)</a>
<a href="#">Drawing (PDF)</a>	<a href="#">Packaging Specification PK-87832-300-001 (PDF)</a>
<a href="#">Product Specification PS-87831-027-001 (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>

**Agency Certification**

CSA	LR19980
UL	E29179

**General**

Product Family	PCB Headers
Series	<a href="#">87832</a>
Application	Signal, Wire-to-Board
Comments	With Cap Contact Molex for application in automotive industry
Overview	<a href="#">Milli-Grid™ Connector System</a>
Product Name	Milli-Grid™
UPC	822350245791

**Physical**

Breakaway	No
Circuits (Loaded)	10
Circuits (maximum)	10
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	0.510/g
Number of Rows	2
Orientation	Vertical
PCB Locator	No
PCB Retention	None
Packaging Type	Embossed Tape on Reel
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/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](#)

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-87831-001-001, PK-87832-300-001

Product Specification PS-87831-027-001

Sales Drawing SD-87832-0001-001

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