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Part Number: [0878331220](#)
Status: **Active**
Overview: [Milli-Grid™ Connector System](#)
Description: [Milli-Grid™ Header, Right Angle, Shrouded, Lead-Free, 12 Circuits, 0.38µm Gold \(Au\) Plating, without PCB Locator, without Locking Window, Center Polarization Slot, Tube](#)

Documents:

[3D Model](#) [Packaging Specification PK-87831-001-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-87831-027-001 \(PDF\)](#)

Agency Certification

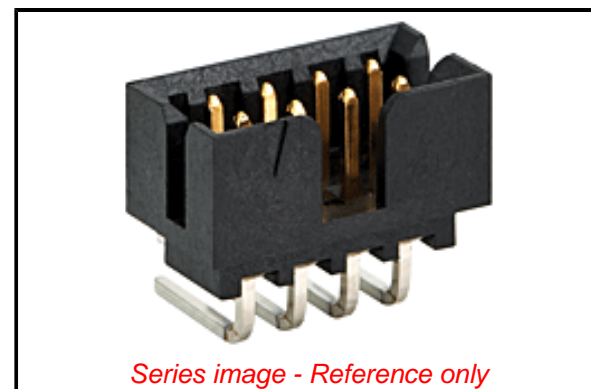
CSA LR19980
 UL E29179

General

Product Family PCB Headers
 Series [87833](#)
 Application Signal, Wire-to-Board
 Comments Contact Molex for application in automotive industry
 Overview [Milli-Grid™ Connector System](#)
 Product Name Milli-Grid™
 UPC 822348186594

Physical

Breakaway No
 Circuits (Loaded) 12
 Circuits (maximum) 12
 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 None
 Material - Metal Phosphor Bronze
 Material - Plating Mating Gold
 Material - Plating Termination Tin
 Material - Resin Nylon
 Net Weight 707.488/mg
 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/30/2017 (7 July
 2017)

Halogen-Free

Status

Not Low-Halogen

**Need more information on product
 environmental compliance?**

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

China ROHS

ELV

RoHS Phthalates

Green Image

Not Relevant

Not Contained

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

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Product Specification PS-87831-027-001

Sales Drawing SD-87833-0001-001

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