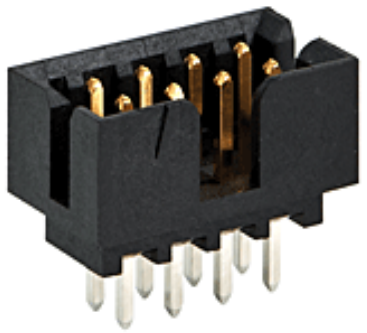
This document was generated on 07/17/2017

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Part Number: 0878314620
Status: Active
Overview: Milli-Grid™ Connector System
Description: 2.00mm Pitch Milli-Grid™ Header, Vertical, Through Hole, Shrouded, 46 Circuits, 0.38µm Gold (Au) Plating, Center Polarization Slot, with Locking Windows, without PCB Locator, Tube



Series image - Reference only

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	87831
Application	Signal, Wire-to-Board
Comments	Contact Molex for application in automotive industry
Overview	Milli-Grid™ Connector System
Product Name	Milli-Grid™
UPC	822348332199

Physical

Breakaway	No
Circuits (Loaded)	46
Circuits (maximum)	46
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
Net Weight	2.008/g
Number of Rows	2
Orientation	Vertical
PC Tail Length	2.50mm
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	Yes
Stackable	No
Surface Mount Compatible (SMC)	Yes

EU ELV
Not Relevant

EU RoHS **China 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
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
87831 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	Through Hole

Electrical

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

Solder Process Data

Duration at Max. Process Temperature (seconds)	010
Lead-freeProcess Capability	WAVE
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-87831-0001-001