molex



Part Number : 878312221
Product Description : 2.00mm Pitch, Milli-Grid PCB Header, Dual Row, Vertical, Through Hole, Shrouded, 22 Circuits, 0.76µm Gold (Au) Plating, with Center Polarization Slot, with Locking Window, without PCB Locator, Tube
Series Number : 87831
Status : Active
Product Category : PCB Headers and Receptacles

Documents & Resources

Drawings

878312221_sd.pdf

PK-87831-001-001.pdf

3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Symbol and Footprint (Multi-Format)

Specifications

503940001-AS-000.pdf

PS-87831-027-001.pdf

Product Environment Compliance

Compliance

GADSL/IMDS	Compliant with Exemption 44; 34; 33
China RoHS	per SJ/T 11365-2006
EU ELV	Not Relevant
Low-Halogen Status	Not Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2025)4165-DC

	(25 June 2025)
EU RoHS	Compliant per EU 2015/863

Compliance Statements
- EU RoHS
- REACH SVHC
- Low-Halogen

Industry Documents
- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

Substances of Interest
- PFAS

EU RoHS Certificate of Compliance

Additional Product Compliance Information

Part Details

General

Status	Active
Category	PCB Headers and Receptacles
Series	87831
Description	2.00mm Pitch, Milli-Grid PCB Header, Dual Row, Vertical, Through Hole, Shrouded, 22 Circuits, 0.76µm Gold (Au) Plating, with Center Polarization Slot, with Locking Window, without PCB Locator, Tube
Application	Signal, Wire-to-Board
Comments	Contact Molex for application in automotive industry
Component Type	PCB Header
Product Name	Milli-Grid
UPC	822348331932

Agency

CSA	LR19980
UL	E29179

Electrical

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

Physical

Breakaway	No
Circuits (Loaded)	22
Circuits (maximum)	22
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Capable	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	0.987/g
Number of Rows	2
Orientation	Vertical
Packaging Type	Tube
PCB Locator	No
PCB Retention	None
PCB Thickness - Recommended	1.60mm
PC Tail Length	2.50mm
Pitch - Mating Interface	2.00mm
Pitch - Termination Interface	2.00mm
Plating min - Mating	0.762µm
Plating min - Termination	1.905µm

Polarized to PCB	No
Shrouded	Yes
Stackable	No
Temperature Range - Operating	-55° to +105°C
Termination Interface Style	Through Hole

Solder Process Data

Lead-Free Process Capability	WAVE

Mates With / Use With

Mates with Part(s)

Description	Part Number
Milli-Grid Dual Row Receptacle Housings	51110
Milli-Grid Vertical Through Hole PCB Receptacles	78787
Milli-Grid Top Entry Surface Mount PCB Receptacles	78788
Milli-Grid Vertical Through Hole PCB Receptacles	79107
Milli-Grid Vertical Through Hole PCB Receptacles	79108
Milli-Grid Top/Bottom Entry Surface Mount PCB Receptacles	79109
Milli-Grid Dual Row Cable-to-Board Receptacles	87568