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Part Number: [0878311620](#)
Status: **Active**
Overview: [Milli-Grid Connector System](#)
Description: 2.00mm Pitch, Milli-Grid PCB Header, Dual Row, Vertical, Through Hole, Shrouded, 16 Circuits, 0.38µm Gold (Au) Plating, with Center Polarization Slot, with Locking Window, without PCB Locator, Tube

Documents:

3D Model	Application Specification 503940001-AS-000 (PDF)
3D Model (PDF)	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	87831
Application	Signal, Wire-to-Board
Comments	Contact Molex for application in automotive industry
Overview	Milli-Grid Connector System
Product Name	Milli-Grid
UPC	822348274109

Physical

Breakaway	No
Circuits (Loaded)	16
Circuits (maximum)	16
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	0.749/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



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Contained Per -
D(2021)4569-DC (8
July 2021)
reaction mass of
2-ethylhexyl 10-
ethyl-4,4-dioct
Methylhexahydrophthalic
anhydride
Perfluorononan-1-
oic acid
(2,2,3,3,4,4,5,5,6,6,7
Diocetyl tin dilaurate,
stannane, dioctyl-,
bis(co
Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]o
Pyrene
Tris(4-nonylphenyl,
branched and linear)
phosphi
Nonadecafluorodecanoic
acid (PFDA) and its
sodiu
n-pentyl-
isopentylphthalate
Disodium-octaborate
Phenol, 2-(2H-
benzotriazol-2-yl)-4,6-
bis(1,1-dim
Ammonium-
pentadecafluorooctanoate
1,3-Propanesultone
Dibutyltin-dichloride
Decamethylcyclopentasiloxane
bis(2-(2-
methoxyethoxy)ethyl)
ether
Dipentyl phthalate
Imidazolidine-2-thione
Phenanthrene

China RoHS

Surface Mount Compatible (SMC) Yes
Temperature Range - Operating -55° 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

Application Specification 503940001-AS-000
Packaging Specification PK-87831-001-001
Product Specification PS-87831-027-001
Sales Drawing SD-87831-0001-001

Dicyclohexyl-
phthalate
4-aminoazobenzene
Cyanamide, lead(2+)
salt (1:1)
Lead titanium
zirconium oxide
Dioxobis(stearato)trilead
Lead-titanium-trioxide
Lead oxide sulfate
(Pb2O(SO4))
Lead-dinitrate
pyrochlore, antimony
lead yellow
Lead
Lead(II,IV)-oxide
Cadmium-sulphide
Diboron-trioxide
Decabromodiphenylether
1,2-bis(2-
methoxyethoxy)ethane
1,2-Dimethoxyethane
Boric acid, disodium
salt, hydrate
Bis(tributyltin) oxide
Diarsenic-trioxide
Diarsenic-pentaoxide
Cobalt-dichloride

Halogen-Free

Status

Not Low-Halogen

For more information, please visit [Contact US](#)

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](#)

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