Part Number : 1719832042

Product Description : Nano-Pitch I/O Connector, Vertical, Through Hole, with Cap, 42 Circuits, Shell Leg Length 3.00mm, Black

Series Number : 171983

Status : Active

Product Category : High-Speed I/O Connectors

Documents & Resources

Drawings

Drawing 1719832042_sd.pdf
Packaging Design Drawing PK-171982-9000-001.pdf
Packaging Design Drawing PK-173307-0001-001.pdf

3D Models and Design Files

3D Model 1719832042_stp.zip
Electrical Model Document EE-171983-0005-002.pdf
S-Parameter Model SP-171983-0005-001.zip
Symbol Footprint Data SYM-171983-2042-001.zip

Specifications

Application Specification AS-173162-0001-001.pdf
Application Specification AS-173162-0002-001.pdf
Product Specification PS-173162-0001-001.pdf

Product Environment Compliance

Compliance

GADSL/IMDS	Not Relevant
China RoHS	
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2023)8585-DC (23 Jan 2024)
EU RoHS	Compliant per EU 2015/863

Multiple Part Product Compliance Statements

- Eu RoHS
- REACH SVHC
- Low-Halogen

Multiple Part Industry Compliance Documents

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

EU RoHS Certificate of Compliance

Part Details

General

Status	Active
Category	High-Speed I/O Connectors
Series	171983
Description	Nano-Pitch I/O Connector, Vertical, Through Hole, with Cap, 42 Circuits, Shell Leg Length 3.00mm, Black
Application	Wire-to-Board
Component Type	Receptacle
Product Family	Nano-Pitch I/O Interconnect System
Product Name	Nano-Pitch I/O
Type	Internal
UPC	889056257077

Agency

UL	E29179

Electrical

Current - Maximum per Contact	0.5A
Data Rate	16.0 Gbps
Grounding to Panel	None
Shielded	No
Voltage - Maximum	30V AC (RMS)/DC

Physical

Circuits (Loaded)	42
Circuits (maximum)	42

Color - Resin	Black
Durability (mating cycles max)	250
Gender	Receptacle
Lock to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	0.750/g
Number of Rows	2
Orientation	Vertical
Packaging Type	Embossed Tape on Reel
Panel Mount	No
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	1.57mm
Pitch - Mating Interface	0.50mm
Pitch - Termination Interface	0.50mm
Plating min - Mating	0.762µm
Plating min - Termination	2.540µm
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Ports	1
Temperature Range - Operating	-40° to +80°C
Termination Interface Style	Through Hole

Solder Process Data

Max-Duration	20
Lead-Free Process Capability	REFLOW
Max-Cycle	1
Max-Temp	260