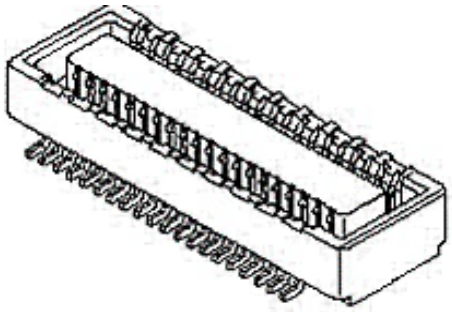
molex



Part Number : 541020804
Product Description : 0.50mm Pitch SlimStack Receptacle, Surface Mount, Dual Row, Vertical, 2.50mm Stacking Height, Gold Plating with Nickel Barrier, 80 Circuits
Series Number : 54102
Status : Active
Product Category : Board-to-Board Connectors

Documents & Resources

Drawings

541020804_sd.pdf

3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Symbol and Footprint (Multi-Format)

Specifications

SPK-54102-001-001.pdf

PS-54102-010-001.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	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	Board-to-Board Connectors
Series	0.5, BB H2.5
Description	0.50mm Pitch SlimStack Receptacle, Surface Mount, Dual Row, Vertical, 2.50mm Stacking Height, Gold Plating with Nickel Barrier, 80 Circuits
Application	Board-to-Board, Signal
Component Type	PCB Receptacle
Product Name	SlimStack
UPC	887191284989

Agency

UL	E29179

Electrical

Current - Maximum per Contact	0.5A
Voltage - Maximum	50V

Physical

Circuits (Loaded)	80
Circuits (maximum)	80
Color - Resin	Black
Durability (mating cycles max)	30
Glow-Wire Capable	No
Lock to Mating Part	Yes
Mated Height	2.50mm
Mated Width	5.30mm
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Net Weight	291.121/mg
Number of Rows	2
Orientation	Vertical
Packaging Type	Embossed Tape on Reel
PCB Locator	No
PCB Retention	None
PCB Thickness - Recommended	1.60mm
Pitch - Mating Interface	0.50mm
Polarized to Mating Part	No
Polarized to PCB	No
Temperature Range - Operating	-40° to +105°C
Termination Interface Style	Surface Mount

Mates With / Use With

Mates with Part(s)

Description	Part Number
0.50mm Pitch Dual Row SlimStack Plugs	500334
0.50mm Pitch Vertical SlimStack Plugs	53885