



Part Number : [542800609](#)
Product Description : 2.00mm Pitch Serial I/O
Connector, Receptacle Kit, Wire-to-Wire, Solder Type, 6
Circuits
Series Number : 54280
Status : Active
Product Category : I/O Connectors



Documents & Resources

Drawings

[542800609 sd.pdf](#)

3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

Specifications

[5006540609AS-A00.pdf](#)

[551000680AS-A00.pdf](#)

[542809200-SPK-200.pdf](#)

[PS-54280-005-001.pdf](#)

Product Environment Compliance

Compliance

GADSL/IMDS	Not Relevant
China RoHS	 per SJ/T 11365-2006
EU ELV	Not Relevant
Low-Halogen Status	Not Low-Halogen per IEC 61249-2-21
REACH SVHC	Contains 2-(2H-Benzotriazol-2-yl)-4- (1,1,3,3-tetramethylbutyl)phenol; Perfluorobutane sulfonic acid (PFBS) and its salts 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	I/O Connectors
Series	54280
Description	2.00mm Pitch Serial I/O Connector, Receptacle Kit, Wire-to-Wire, Solder Type, 6 Circuits
Application	Wire-to-Wire
Component Type	Receptacle
Product Name	2.00mm I/O Connectors
Type	N/A
UPC	822348189182

Electrical

Current - Maximum per Contact	2.0A
Shielded	Yes
Voltage - Maximum	125V AC (RMS)/DC

Physical

Circuits (Loaded)	6
Circuits (maximum)	6
Color - Resin	Black, Gray
Durability (mating cycles max)	1500
Lock to Mating Part	Yes
Material - Metal	Phosphor Bronze, Steel
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic, Polycarbonate
Net Weight	10000.080/mg
Orientation	Vertical
Packaging Type	Bag
Panel Mount	No
Pitch - Mating Interface	2.00mm
Plating min - Mating	0.762µm
Plating min - Termination	3.048µm
Polarized to Mating Part	Yes
Temperature Range - Operating	-40° to +85°C
Termination Interface Style	N/A
Wire Insulation Diameter	2.10mm max.
Wire Size (AWG)	16, 18, 20, 22, 24, 26, 28

Mates With / Use With

Mates with Part(s)

Description	Part Number
2.00mm Pitch Serial I/O Connector, Plug Kit, Wire-to-Wire, Crimp Type, 6 Circuits	<u>5006540609</u>
2.00mm Pitch Serial I/O Connector, Plug Kit, Wire-to-Wire, Solder Type, 6 Circuits, Bag	<u>551000670</u>
2.00mm Pitch Serial I/O Connector, Plug Kit, Wire-to-Wire, Solder Type, 6 Circuits, Tray	<u>551000680</u>

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