



Part Number : [452801053](#)

Product Description : Micro-Fit BMI CPI Compliant Pin Header, Blind Mate Interface, Dual Row, Vertical, 10 Circuits, PA Polyamide Nylon 4/6, UL 94V-0, 0.76µm Gold (Au) Selective Contact Plating, Tin (Sn) Tail Plating

Series Number : 45280

Status : Active

Product Category : PCB Headers and Receptacles



Documents and Resources

Drawings

[452801053 sd.pdf](#)

[PK-45280-002-001.pdf](#)

3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

[Symbol and Footprint \(Multi-Format\)](#)

[SYM-45280-1001-001.zip](#)

Specifications

[444280001-AS-000.pdf](#)

[PS-44300-001-001.pdf](#)

[447640002-TS-000.pdf](#)

[TS-45280-001-001.pdf](#)

Product Environment Compliance

Compliance

GADSL/IMDS	Compliant with Exemption 44
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	45280
Description	Micro-Fit BMI CPI Compliant Pin Header, Blind Mate Interface, Dual Row, Vertical, 10 Circuits, PA Polyamide Nylon 4/6, UL 94V-0, 0.76µm Gold (Au) Selective Contact Plating, Tin (Sn) Tail Plating
Application	Board-to-Board, Power, Wire-to-Board
Component Type	PCB Header
Product Name	Micro-Fit BMI CPI
UPC	822350561310

Agency

CSA	LR19980
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UL	E29179
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Electrical

Current - Maximum per Contact	8.5A
Voltage - Maximum	600V

Physical

Breakaway	No
Circuits (Loaded)	10
Circuits (maximum)	10
Color - Resin	Black
Durability (mating cycles max)	30
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Capable	No
Guide to Mating Part	Yes
Keying to Mating Part	No
Lock to Mating Part	No
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	Nylon
Net Weight	2.080/g
Number of Rows	2
Orientation	Vertical
Packaging Type	Tray
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	2.36mm
PC Tail Length	4.90mm
Pitch - Mating Interface	3.00mm
Plating min - Mating	0.762µm
Plating min - Termination	2.540µm
Polarized to Mating Part	Yes
Polarized to PCB	Yes

Shrouded	Shrouded
Stackable	No
Temperature Range - Operating	-40° to +105°C
Termination Interface Style	Through Hole - Compliant Pin

Solder Process Data

Lead-Free Process Capability	N/A
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Mates With / Use With

Mates with Part(s)

Description	Part Number
Micro-Fit BMI Receptacle Housing, Dual Row, Panel Mount, 10 Circuits, Polyester, UL 94V-0	<u>441331000</u>
Micro-Fit BMI Receptacle Header, Dual Row, Right-Angle, with Press-fit Plastic Pegs, 0.76µm Gold (Au) Selective Plating, Mylar Positioning Strip, 10 Circuits	<u>447641003</u>
Micro-Fit BMI Receptacle Header, Dual Row, Vertical, with Press-fit Plastic Pegs, 0.76µm Gold (Au) Selective, 10 Circuits	<u>447691003</u>

Application Tooling

Global

Description	Part Number
Insertion Tool for Micro-Fit BMI CPI Header Assemblies	<u>622002700</u>
Compliant Pin Insertion Flat Rock Tool	<u>622008400</u>
Removal Tool	<u>622030450</u>