



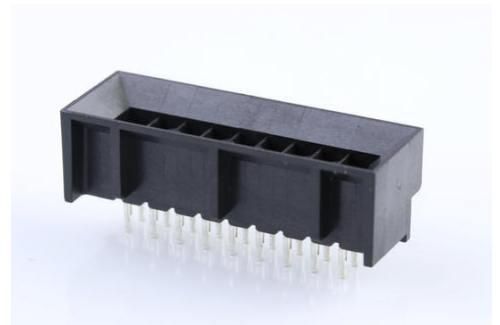
**Part Number :** [452801801](#)

**Product Description :** Micro-Fit BMI CPI Compliant Pin Header, Blind Mate Interface, Dual Row, Vertical, 18 Circuits, PA Polyamide Nylon 4/6, UL 94V-0, Tin (Sn) Over Nickel (Ni) Plating

**Series Number :** 45280

**Status :** Active

**Product Category :** PCB Headers and Receptacles



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## Documents & Resources

### Drawings

[452801801\\_sd.pdf](#)

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

### 3D Models and Design Files

[STEP AP242](#)

[SOLIDWORKS](#)

[Creo](#)

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

[SYM-45280-1801-001.zip](#)

### Specifications


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

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

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## 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	Not Contained per D(2025)4165-DC (25 June 2025)

EU RoHS	Compliant per EU 2015/863
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### 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, 18 Circuits, PA Polyamide Nylon 4/6, UL 94V-0, Tin (Sn) Over Nickel (Ni) Plating
Application	Board-to-Board, Power, Wire-to-Board
Component Type	PCB Header
Product Name	Micro-Fit BMI CPI
UPC	756054634608

### Agency

CSA	LR19980
UL	E29179

### Electrical

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

## Physical

Breakaway	No
Circuits (Loaded)	18
Circuits (maximum)	18
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
Lock to Mating Part	None
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	3.182/g
Number of Rows	2
Orientation	Vertical
Packaging Type	Tray
PCB Locator	Yes
PCB Retention	Yes
PC Tail Length	4.80mm
Pitch - Mating Interface	3.00mm
Plating min - Mating	5.080µm
Plating min - Termination	5.080µm
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Fully
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, 18 Circuits, Polyester, UL 94V-0	<u>441331800</u>
Micro-Fit BMI Receptacle Header, Dual Row, Right-Angle, with Press-fit Plastic Pegs, 2.54µm Tin (Sn), 18 Circuits	<u>447641801</u>
Micro-Fit BMI Receptacle Header, Dual Row, Vertical, with Press-fit Plastic Pegs, 2.54µm Tin (Sn), 18 Circuits	<u>447691801</u>

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## 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>