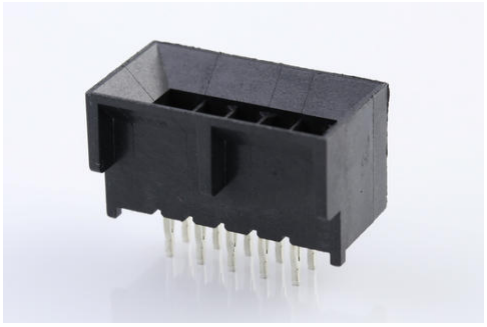


Part Number : 452801052
Product Description : Micro-Fit BMI CPI Compliant Pin Header, Blind Mate Interface, Dual Row, Vertical, 10 Circuits, PA Polyamide Nylon 4/6, UL 94V-0, 0.38µm Gold (Au) Selective Contact Plating, Tin (Sn) Tail Plating
Series Number : 45280
Status : Active
Product Category : PCB Headers and Receptacles

Documents and Resources

Drawings

452801052_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	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)

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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, 0.38µm Gold (Au) Selective Contact Plating, Tin (Sn) Tail Plating
Application	Board-to-Board, Wire-to-Board
Component Type	PCB Header
Product Name	Micro-Fit BMI CPI
UPC	822350790772

Agency

CSA	LR19980
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
Gender	Male
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
Pitch - Termination Interface	3.00mm
Plating min - Mating	0.381µm
Plating min - Termination	2.540µm
Polarized to Mating Part	Yes
Polarized to PCB	Yes

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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

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	441331000
Micro-Fit BMI Receptacle Header, Dual Row, Right-Angle, with Press-fit Plastic Pegs, 0.38µm Gold (Au) Selective Plating, Mylar Positioning Strip, 10 Circuits	447641002
Micro-Fit BMI Receptacle Header, Dual Row, Vertical, with Press-fit Plastic Pegs, 0.38µm Gold (Au) Selective, 10 Circuits	447691002

Application Tooling

Global

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

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