Part Number : 452800401
Product Description : Micro-Fit BMI CPI Compliant Pin Header, Blind Mate Interface, Dual Row, Vertical, 4 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



Documents and Resources

Drawings

452800401_sd.pdf

PK-45280-002-001.pdf

3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Symbol and Footprint (Multi-Format)

SYM-45280-0401-001.zip

Specifications

PS-44300-001-001.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)

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, 4 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	756054634530

Agency

CSA	LR19980
UL	E29179

Electrical

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

Physical

Breakaway	No
Circuits (Loaded)	4
Circuits (maximum)	4
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	None
Lock to Mating Part	None
Material - Metal	Copper Alloy
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Nylon
Net Weight	1.276/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	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

Mates With / Use With

Mates with Part(s)

Description	Part Number
Micro-Fit BMI Receptacle Housing, Dual Row, Panel Mount, 4 Circuits, Polyester, UL 94V-0	441330400
Micro-Fit BMI Receptacle Header, Dual Row, Right-Angle, with Press-fit Plastic Pegs, 2.54µm Tin (Sn), 4 Circuits	447640401
Micro-Fit BMI Receptacle Header, Dual Row, Vertical, with Press-fit Plastic Pegs, 2.54µm Tin (Sn), 4 Circuits	447690401

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