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Part Number: [0452801201](#)
Status: **Active**
Overview: [Micro-Fit Connector System](#)
Description: Micro-Fit BMI CPI Compliant Pin Header, Blind Mate Interface, Dual Row, Vertical, 12 Circuits, PA Polyamide Nylon 4/6, UL 94V-0, Tin (Sn) Over Nickel (Ni) Plating

Documents:

| | |
|--|--|
| 3D Model | Test Summary TS-45280-001-001 (PDF) |
| 3D Model (PDF) | Datasheet (PDF) |
| Drawing (PDF) | Symbol Footprint Data SYM-45280-1201-001 (PDF) |
| Product Specification PS-44300-001-001 (PDF) | RoHS Certificate of Compliance (PDF) |
| Packaging Specification PK-45280-002-001 (PDF) | |

Agency Certification

| | |
|-----|---------|
| CSA | LR19980 |
| UL | E29179 |

Application tooling part link

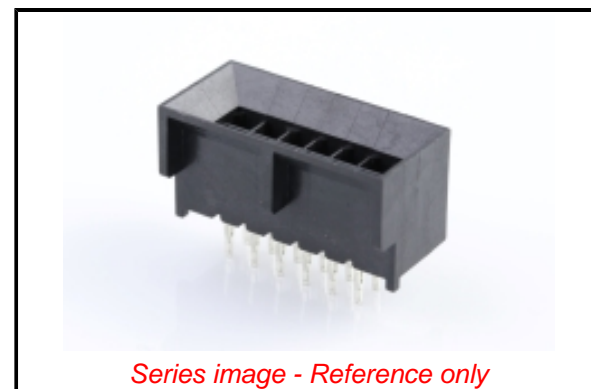
| | |
|-------------------------------|------------|
| Application Tooling Part Link | 62200-2700 |
| Application Tooling Part Link | 62200-8400 |
| Application Tooling Part Link | 62203-0450 |

General

| | |
|----------------|--|
| Product Family | PCB Headers |
| Series | 45280 |
| Application | Board-to-Board, Power, Wire-to-Board |
| Overview | Micro-Fit Connector System |
| Product Name | Micro-Fit BMI CPI |
| UPC | 756054634578 |

Physical

| | |
|--------------------------------|--------------------------------|
| Breakaway | No |
| Circuits (Loaded) | 12 |
| Circuits (maximum) | 12 |
| Color - Resin | Black |
| Durability (mating cycles max) | 30 |
| 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 | 2.368/g |
| Number of Rows | 2 |
| Orientation | Vertical |
| PC Tail Length | 4.80mm |
| PCB Locator | Yes |
| PCB Retention | Yes |
| Packaging Type | Tray |
| 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 |



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Not Contained Per -
D(2021)4569-DC (8
July 2021)

Halogen-Free

Status

Not Low-Halogen

For more information, please visit [Contact US](#)

China ROHS

ELV

RoHS Phthalates

China RoHS

Green Image

Not Relevant

Not Contained

Search Parts in this Series

[45280](#) Series

Mates With

[441331200](#) Micro-Fit BMI Panel Mount Receptacle Housing, [447641201](#) Micro-Fit BMI Right Angle Receptacle Header, [447691201](#) Micro-Fit BMI Vertical Receptacle Header

Application Tooling | FAQ

Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.

Global

| Description | Product # |
|--|---------------------------|
| Insertion Tool for Micro-Fit BMI CPI Header Assemblies | 622002700 |
| Compliant Pin Insertion Flat Rock Tool | 622008400 |
| Removal Tool | 622030450 |

| | |
|--------------------------------|------------------------------|
| Stackable | No |
| Surface Mount Compatible (SMC) | No |
| Temperature Range - Operating | -40° to +105°C |
| Termination Interface: Style | Through Hole - Compliant Pin |

Electrical

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

Solder Process Data

| | |
|------------------------------|-----|
| Lead-free Process Capability | N/A |
|------------------------------|-----|

Material Info**Reference - Drawing Numbers**

| | |
|-------------------------|--------------------|
| Packaging Specification | PK-45280-002-001 |
| Product Specification | PS-44300-001-001 |
| Sales Drawing | SD-45280-002-001 |
| Symbol/Footprint Data | SYM-45280-1201-001 |
| Test Summary | TS-45280-001-001 |

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