



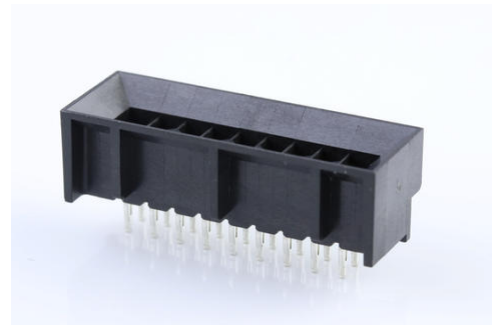
**Part Number :** [452801853](#)

**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, 0.76µm Gold (Au) Selective Contact Plating, Tin (Sn) Tail Plating

**Series Number :** 45280

**Status :** Active

**Product Category :** PCB Headers and Receptacles



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## Documents and Resources

### Drawings

[452801853 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

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

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

[447640002-TS-000.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                       |

#### 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, 0.76µm 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            | 822350791830                                                                                                                                                                                       |

### 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        |
| 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                     | 3.164/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           | 0.762µm      |
| 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, 18 Circuits, Polyester, UL 94V-0                                                                     | <a href="#"><u>441331800</u></a> |
| Micro-Fit BMI Receptacle Header, Dual Row, Right-Angle, with Press-fit Plastic Pegs, 0.76µm Gold (Au) Selective Plating, Mylar Positioning Strip, 18 Circuits | <a href="#"><u>447641803</u></a> |
| Micro-Fit BMI Receptacle Header, Dual Row, Vertical, with Press-fit Plastic Pegs, 0.76µm Gold (Au) Selective, 18 Circuits                                     | <a href="#"><u>447691803</u></a> |

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## Application Tooling

### Global

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

