



**Part Number :** [438790029](#)  
**Product Description :** Mini-Fit BMI Header  
Compliant Pin Interface, Dual Row, Vertical, 18 Circuits,  
Tin (Sn) Plating  
**Series Number :** 43879  
**Status :** Active  
**Product Category :** PCB Headers and Receptacles



## Documents & Resources

### Drawings

[438790029 sd.pdf](#)  
[PK-43879-001-000.pdf](#)

### 3D Models and Design Files

[STEP AP242](#)  
[SOLIDWORKS](#)  
[Creo](#)  
[Symbol and Footprint \(Multi-Format\)](#)

### Specifications

[PS-43879-001-001.pdf](#)  
[TS-43879-001-001.pdf](#)

## Product Environment Compliance

### Compliance

|                    |                                                                                                           |
|--------------------|-----------------------------------------------------------------------------------------------------------|
| GADSL/IMDS         | Compliant with Exemption 44                                                                               |
| 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

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## Part Details

### General

|                |                                                                                                |
|----------------|------------------------------------------------------------------------------------------------|
| Status         | Active                                                                                         |
| Category       | PCB Headers and Receptacles                                                                    |
| Series         | 43879                                                                                          |
| Description    | Mini-Fit BMI Header Compliant Pin Interface, Dual Row, Vertical, 18 Circuits, Tin (Sn) Plating |
| Application    | Board-to-Board, Power, Wire-to-Board                                                           |
| Comments       | Square Pin, Compliant Pin                                                                      |
| Component Type | PCB Header                                                                                     |
| Product Name   | Mini-Fit BMI                                                                                   |
| UPC            | 800753952102                                                                                   |

### Agency

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

### Electrical

|                               |                  |
|-------------------------------|------------------|
| Current - Maximum per Contact | 8.0A             |
| Voltage - Maximum             | 600V AC (RMS)/DC |

## 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           | No                             |
| Keying to Mating Part          | None                           |
| Lock to Mating Part            | Yes                            |
| Material - Metal               | Brass, Phosphor Bronze         |
| Material - Plating Mating      | Tin                            |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 8.420/g                        |
| Number of Rows                 | 2                              |
| Orientation                    | Vertical                       |
| Packaging Type                 | Tray                           |
| PCB Locator                    | No                             |
| PCB Retention                  | Yes                            |
| PC Tail Length                 | 6.25mm                         |
| Pitch - Mating Interface       | 4.20mm                         |
| Pitch - Termination Interface  | 4.20mm                         |
| Plating min - Mating           | 2.540µm                        |
| Plating min - Termination      | 2.540µm                        |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | No                             |
| 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  |
|---------------------------------------------------|--------------|
| Mini-Fit BMI Vertical Dual Row Receptacle Headers | <u>42385</u> |
| Mini-Fit BMI Dual Row Receptacle Housings         | <u>42474</u> |
| Mini-Fit BMI Dual Row Receptacle Housings         | <u>44516</u> |
| Mini-Fit Jr. Receptacle Housings                  | <u>5557</u>  |

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## Application Tooling

### Global

| Description               | Part Number      |
|---------------------------|------------------|
| Flat Rock Tool for Header | <u>622009400</u> |