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**Part Number:** [0437590001](#)  
**Status:** **Active**  
**Overview:** Mini-Fit BMI Connectors  
**Description:** Mini-Fit BMI Header, 4.20mm Pitch, Dual Row, Right-Angle, with Snap-in Plastic Peg PCB Lock, 36 Circuits, PA Polyamide Nylon 6/6, UL 94V-2, with Tin (Sn) Plating

**Documents:**

[3D Model](#) [Test Summary TS-42404-001-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Packaging Specification PK-42404-002-001 \(PDF\)](#)

**Agency Certification**

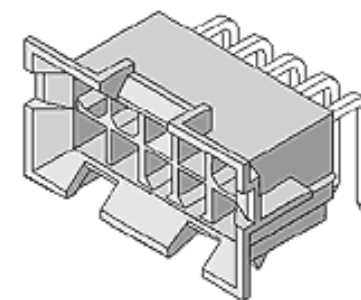
CSA LR19980  
 UL E29179

**General**

Product Family PCB Headers  
 Series [43759](#)  
 3D Viewer Yes  
 Application Board-to-Board, Power, Wire-to-Board  
 CURRENT-MAX-NUMERIC 13.0  
 Comments Current = 13A max. per circuit when header is mated to a receptacle loaded with [45750](#) Mini-Fit Plus HCS Crimp Terminal Crimped to 16 AWG wire., See Molex product specification PS-45750-001 for additional current de-rating information.  
 Comments Current = 13A max. per circuit when header is mated to a receptacle loaded with [45750](#) Mini-Fit Plus HCS Crimp Terminal Crimped to 16 AWG wire., See Molex product specification PS-45750-001 for additional current de-rating information.  
 Overview [Mini-Fit BMI Connectors](#)  
 PITCH-MATING-NUMERIC 4.20  
 Product Name Mini-Fit BMI  
 UPC 800753683334

**Physical**

Breakaway No  
 Circuits (Loaded) 36  
 Circuits (maximum) 36  
 Color - Resin Natural  
 Durability (mating cycles max) 30  
 First Mate / Last Break Yes  
 Flammability 94V-2  
 Glow-Wire Capable No  
 Guide to Mating Part No  
 Keying to Mating Part None  
 Lock to Mating Part None  
 Material - Metal Brass  
 Material - Plating Mating Tin  
 Material - Plating Termination Tin  
 Material - Resin Nylon  
 Net Weight 15.119/g  
 Number of Rows 2  
 Orientation Right Angle  
 PC Tail Length 3.30mm  
 PCB Locator Yes



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per  
 -ED/88/2018 (15  
 January 2019)

**Halogen-Free**

**Status**

**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**

[43759](#) Series

**Mates With**

[43760](#) Mini-Fit BMI Panel Mount Receptacle,  
[44516](#) Mini-Fit BMI Slide-and-Lock Panel  
 Mount Receptacle

PCB Retention	Yes
PCB Thickness - Recommended	1.80mm
Packaging Type	Tray
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	Yes
Shrouded	Partial
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40° to +105°C
Termination Interface: Style	Through Hole

**Electrical**

Current - Maximum per Contact	13.0A
Voltage - Maximum	600V

**Solder Process Data**

Duration at Max. Process Temperature (seconds)	005
Lead-free Process Capability	WAVE
Max. Cycles at Max. Process Temperature	001
Process Temperature max. C	235

**Material Info****Reference - Drawing Numbers**

Packaging Specification	PK-42404-002-001
Sales Drawing	PS-43759-0001-001, PS-43759-0001-006, SDA-43759- X
Test Summary	TS-42404-001-001

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