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Part Number: [0437590004](#)
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, 0.76µm Gold (Au) 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

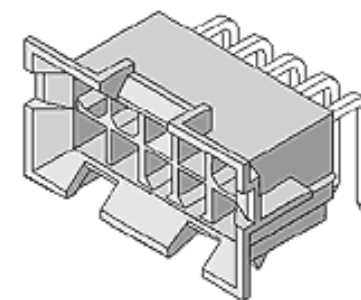
CSA LR19980
 UL E29179

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.
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 Overview [Mini-Fit BMI Connectors](#)
 PITCH-MATING-NUMERIC 4.20
 Product Name Mini-Fit BMI
 UPC 800756064437

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 Gold
 Material - Plating Termination Gold
 Material - Resin Nylon
 Net Weight 14.255/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/71/2019 (16 July 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	0.762µm
Plating min - Termination	0.762µm
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	240

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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