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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](#)

[Drawing \(PDF\)](#)

[Product Specification TS-42404-001-001 \(PDF\)](#)

[Packaging Specification PK-42404-002-001 \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA	LR19980
UL	E29179

General

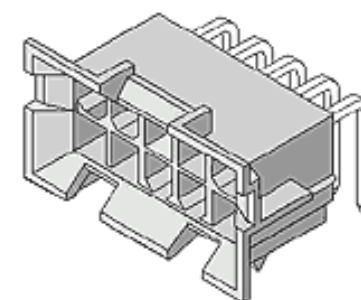
Product Family	PCB Headers
Series	43759
Application	Board-to-Board, Power, Wire-to-Board
Comments	Current = 13A max. per circuit when header is mated to a receptacle loaded with 45750 Mini-Fit® Plus HCS Crimp Terminal Crimped to 16 AWG wire., See Molex product specification PS-45750-001 for additional current de-rating information.

Overview

Product Name	Mini-Fit BMI Connectors
UPC	Mini-Fit® BMI 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 Compliant	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
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



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Not Contained Per - ED/30/2017 (7 July 2017)

Halogen-Free

Status

Low-Halogen

Need more information on product environmental compliance?

Email productcompliance@molex.com
Please visit the [Contact Us](#) section for any non-product compliance questions.

China ROHS	Green Image
ELV	Not Relevant
RoHS Phthalates	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

Polarized to PCB	Yes
Shrouded	Partial
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C 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
Product Specification	TS-42404-001-001
Sales Drawing	SDA-43759-*

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