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Part Number: [0015286181](#)
Status: **Active**
Overview: Mini-Fit Family Power Connectors
Description: Mini-Fit BMI Header, 4.20mm Pitch, Dual Row, Vertical, with Snap-in Plastic Peg PCB Lock, 18 Circuits, PA Polyamide Nylon 6/6, UL 94V-2, Select Gold (Au) Plating, without Drain Holes

Documents:

3D Model	Product Specification PS-5556-002-001 (PDF)
Drawing (PDF)	Packaging Specification PK-42440-001-001 (PDF)
3D Model (PDF)	Test Summary TS-5556-002-001 (PDF)
Product Specification 55560002-PS-CH-000 (PDF)	Symbol Footprint Data SYM-A42440-18XX-001 (PDF)
Product Specification 55560002-PS-ES-000 (PDF)	RoHS Certificate of Compliance (PDF)
Product Specification 55560002-PS-SK-000 (PDF)	

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	42440
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	Mini-Fit Family Power Connectors
Product Name	Mini-Fit BMI
Taxonomy	PCB Headers and Receptacles
UPC	800754912334

Physical

Breakaway	No
Circuits (Loaded)	18
Circuits (maximum)	18
Color - Resin	Natural
Durability (mating cycles max)	30
Flammability	94V-2
Glow-Wire Capable	No
Guide to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	Nylon
Net Weight	4.084/g
Number of Rows	2
Orientation	Vertical
PC Tail Length	3.56mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	1.80mm
Packaging Type	Tray
Pitch - Mating Interface	4.20mm
Plating min - Mating	0.762µm



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Not Contained Per -
D(2022)4187-DC (10
June 2022)

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

[42440](#) Series

Mates With

[15060180](#) Mini-Fit BMI Panel Mount Receptacle, [39012180](#) Mini-Fit Jr. Receptacle, [15247182](#) Mini-Fit BMI Vertical Receptacle Header

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	240

Material Info

Engineering Number	A-42440-1812
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Reference - Drawing Numbers

Packaging Specification	PK-42440-001-001
Product Specification	55560002-PS-CH-000, 55560002-PS-ES-000, 55560002-PS-SK-000, PS-5556-002-001
Sales Drawing	SDA-42440-XXXX-001
Symbol/Footprint Data	SYM-A42440-18XX-001
Test Summary	TS-5556-002-001

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