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Part Number: [0015248152](#)
Status: **Active**
Overview: Mini-Fit Family Power Connectors
Description: Mini-Fit Jr. BMI PCB Receptacle Header, 4.20mm Pitch, Dual Row, Vertical, 10 Circuits Loaded / 14 Circuits Max, PA Polyamide Nylon 6/6, UL 94V-2, Tin (Sn) Over Nickel (Ni) Plating

Documents:

3D Model	Product Specification PS-5556-002-001 (PDF)
3D Model (PDF)	Test Summary 423850000-TS-000 (PDF)
Drawing (PDF)	Test Summary TS-5556-002-001 (PDF)
Product Specification 55560002-PS-CH-000 (PDF)	Symbol Footprint Data SYM-A42416-14XX-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 Receptacles
Series	42416
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 for additional current de-rating information.
Overview	Mini-Fit Family Power Connectors
Product Name	Mini-Fit Jr.
UPC	800754910941

Physical

Circuits (Loaded)	10
Circuits (maximum)	14
Color - Resin	Natural
Durability (mating cycles max)	30
Flammability	94V-0
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	2.484/g
Number of Rows	2
Orientation	Vertical
PCB Locator	Yes
PCB Retention	Yes
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



EU ELV

Not Relevant

EU RoHS

Compliant

REACH SVHC

Not Contained Per -
D(2021)4569-DC (8
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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

[42416](#) Series

Mates With

Plugs [42475](#) , Headers [42404](#) , [42440](#) ,
[43810](#) , [43879](#) , [44068](#)

Temperature Range - Operating -40° to +105°C
Termination Interface: Style Through Hole

Electrical

Current - Maximum per Contact 13.0A
Grounding to PCB Yes
Voltage - Maximum 600V AC (RMS)/DC

Solder Process Data

Duration at Max. Process Temperature (seconds) 005
Lead-freeProcess Capability WAVE
Max. Cycles at Max. Process Temperature 001
Process Temperature max. C 240

Material Info

Engineering Number 42416-14BD

Reference - Drawing Numbers

Product Specification 55560002-PS-CH-000, 55560002-PS-ES-000,
55560002-PS-SK-000, PS-5556-002-001
Sales Drawing SDA-42416-X-001
Symbol/Footprint Data SYM-A42416-14XX-001
Test Summary 423850000-TS-000, TS-5556-002-001

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