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Part Number: [43973-0003](#)

Status: **Active**

Overview: [Mini-Fit® Blind Mate Interface \(BMI\) Connectors](#)

Description: 4.20mm Pitch Mini-Fit Jr.® BMI Header, Dual Row, Vertical, Mate-First/Break Last, 40 Circuits, with Tin (Sn) Plating, Tail Length 7.20mm

Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[Test Summary TS-42404-001 \(PDF\)](#)

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

Agency Certification

CSA	LR19980
TUV	R72081037
UL	E29179

General

Product Family	PCB Headers
Series	43973
Application	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® Blind Mate Interface (BMI) Connectors
Product Name	Mini-Fit® BMI
UPC	822348301263

Physical

Breakaway	No
Circuits (Loaded)	40
Circuits (maximum)	40
Durability (mating cycles max)	30
First Mate / Last Break	Yes
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Net Weight	16.083/g
Number of Rows	2
Orientation	Vertical
PC Tail Length	7.20mm
PCB Locator	No
PCB Retention	None
PCB Thickness - Recommended	1.60mm
Packaging Type	Tray
Pitch - Mating Interface	4.20mm
Plating min - Mating	2.540µm
Plating min - Termination	2.540µm
Polarized to Mating Part	Yes
Polarized to PCB	No
Shrouded	Fully

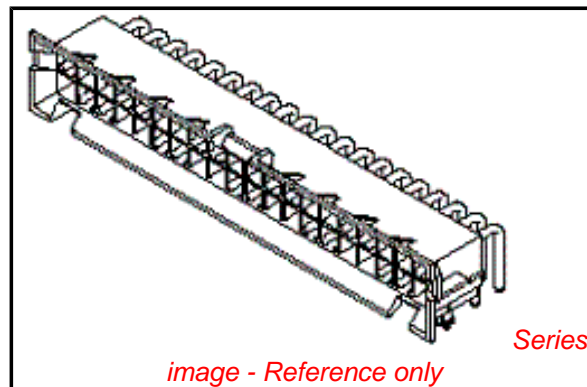


image - Reference only

EU RoHS

ELV and RoHS Compliant

REACH SVHC

**Contains SVHC: No
Low-Halogen Status
Not Low-Halogen**

China RoHS



Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

[43973Series](#)

Mates With

[43974-0002](#) Mini-Fit Jr.™ Receptacle,
[43974-0005](#) Mini-Fit Jr.™ Receptacle

Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	0°C to +85°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	13A
Voltage - Maximum	600V AC (RMS)/DC

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

Material Info**Reference - Drawing Numbers**

Sales Drawing	SD-43973-002
Test Summary	TS-42404-001

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