

Part Number: 15286242

Product Description: Mini-Fit BMI Header, 4.20mm Pitch, Dual Row, Vertical, with Snapin Plastic Peg PCB Lock, 24 Circuits, PA Polyamide Nylon 6/6, UL 94V-0, Select Gold

(Au) Plating, without Drain Holes

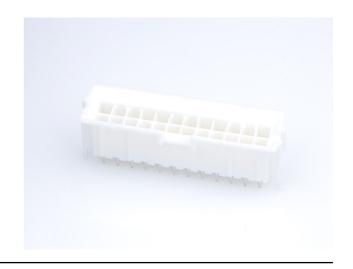
Series Number: 42440

**Status:** Active

**Product Category: PCB Headers and** 

Receptacles

Engineering Number: A-42440-2422



#### **Documents & Resources**

#### **Drawings**

<u>015286242\_sd.pdf</u> PK-42440-001-001.pdf

#### 3D Models and Design Files

015286242\_stp.zip SYM-A42440-24XX-001.zip

#### **Specifications**

55560002-PS-CH-000.pdf 55560002-PS-ES-000.pdf 55560002-PS-SK-000.pdf PS-5556-002-001.pdf TS-5556-002-001.pdf

## **Product Environment Compliance**

## Compliance

GADSL/IMDS	Compliant with Exemption 44; 34; 33
China RoHS	•
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2024)6225-DC (07 Nov 2024)
EU RoHS	Compliant per EU 2015/863

## Multiple Part Product Compliance Statements

- Eu RoHS
- REACH SVHC
- Low-Halogen

## Multiple Part Industry Compliance Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

## EU RoHS Certificate of Compliance

### **Part Details**

#### General

Status	Active
Category	PCB Headers and Receptacles
Series	42440
Description	Mini-Fit BMI Header, 4.20mm Pitch, Dual Row, Vertical, with Snap-in Plastic Peg PCB Lock, 24 Circuits, PA Polyamide Nylon 6/6, UL 94V-0, Select Gold (Au) Plating, without Drain Holes
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.
Component Type	PCB Header
Product Name	Mini-Fit BMI
UPC	800754240963

# Agency

CSA	LR19980
UL	E29179

# Electrical

Current - Maximum per Contact	13.0A
Voltage - Maximum	600V

# Physical

Breakaway	No
Circuits (Loaded)	24
Circuits (maximum)	24
Color - Resin	Natural (White)
Durability (mating cycles max)	30
Flammability	94V-0
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	5.319/g
Number of Rows	2
Orientation	Vertical
Packaging Type	Tray
PC Tail Length	3.56mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	1.80mm
Pitch - Mating Interface	4.20mm
Plating min - Mating	0.762µm
Plating min - Termination	2.540μm
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Partial
Stackable	No
Temperature Range - Operating	-40° to +105°C

Termination Interface Style	Through Hole
,	U

### **Solder Process Data**

Max-Duration	5
Lead-Free Process Capability	WAVE
Max-Cycle	1
Max-Temp	240

## Mates With / Use With

# Mates with Part(s)

Description	Part Number
Mini-Fit BMI Receptacle Housing, 4.20mm Pitch, Dual Row with Panel Mount Ears, PA Polyamide Nylon 6/6, UL 94V-0, 24 Circuits	<u>15060241</u>
Mini-Fit BMI Receptacle Header, 4.20mm Pitch, Dual Row, Vertical, with Snap-In Plastic Pegs, 0.80µm Gold (Au), UL 94V-0, 24 Circuits	<u>15247243</u>
Mini-Fit Jr. Receptacle Housing, Dual Row, 24 Circuits, UL 94V-0, Natural	<u>39012245</u>
Mini-Fit BMI Receptacle Housing, 4.20mm Pitch, Dual Row, Panel Mount, Slide-and-Lock, PBT Polyester, UL 94V-0, 24 Circuits	445160012

This document was generated on Jan 20, 2025