

Part Number: 45986-2312

Image not available

Status: Contact Molex
Series: 45986
Category: PCB Headers
Overview: [Mini-Fit Sr.™ Power Connectors](#)

Go to [Part Detail](#)

Series image - Reference only

Mates With Part(s):
[42816](#) Receptacle with TPA

Specifications & Other Documents:

Note - Please disable browser pop-up blockers to view documents on www.molex.com

Product Environmental Compliance

Questions on Product Environmental Compliance? Email productcompliance@molex.com

EU ELV: Not Relevant
EU RoHS: Compliant
China RoHS:
REACH SVHC: Contains SVHC(2015 June 15): No
Low-Halogen Status: Not Low-Halogen

[RoHS Certificate of Compliance \(PDF\)](#)
[Multiple Part Product Compliance Form](#)

Application Tooling

[FAQ](#)

Tooling specifications and manuals are found by selecting the products below.
 Crimp Height Specifications are then contained in the Application Tooling Specification document.

Previously Available Application Tooling

[Check our list of old tooling that used to be available for this part](#)

Part Detail

General

Status	Contact Molex
Category	PCB Headers
Series	45986
Application	Power, Wire-to-Board
Overview	Mini-Fit Sr.™ Power Connectors
Product Name	Mini-Fit Sr.™
UPC	822350727860

Physical

Breakaway	No
Circuits (Loaded)	2
Circuits (maximum)	2
Color - Resin	Black
Durability (mating cycles max)	30
First Mate / Last Break	No
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
Material - Resin	High Temperature Thermoplastic
Net Weight	6.869/g
Number of Rows	1
Orientation	Right Angle
PC Tail Length	3.50mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	1.60mm
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface	10.00mm
Plating min - Mating	2.540µm
Plating min - Termination	2.540µm
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

Electrical

(Please review the Product Specification for specific details.)

Current - Maximum per Contact	50.0A
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	245

Material Info

Molex Connectors

- Wire-to-Board
- Board-to-Board
- Wire-to-Wire
- Input/Output (IO)
- FFC/FPC
- Sockets

Other Products

- Optical Solutions
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- Membrane Switches
- Copper Flex
- PCB Assemblies
- Woodhead Electrical
- Solid State Lighting
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- Noise Suppression Sheets

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