molex



Part Number : 430451220
Product Description : Micro-Fit 3.0 Vertical Header, 3.00mm Pitch, Dual Row, 12 Circuits, with Solder Tab, Gold, Glow-Wire Capable, Black, Tape and Reel
Series Number : 43045
Status : Active
Product Category : PCB Headers and Receptacles

Documents & Resources

Drawings

430451220_sd.pdf

430450002-PK-000.pdf

3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Symbol and Footprint (Multi-Format)

SYM-43045-1218-001.zip

Specifications

430450001-PS-KO-000.pdf

430450001-PS-SP-000.pdf

PS-43045-001.pdf

430450006-TS-000.pdf

430450007-TS-000.pdf

TS-43045-001-001.pdf

TS-43045-002-001.pdf

TS-46235-001-001.pdf

Product Environment Compliance

Compliance

GADSL/IMDS	Compliant with Exemption 44; 34; 33

China RoHS	per SJ/T 11365-2006
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2025)4165-DC (25 June 2025)
EU RoHS	Compliant per EU 2015/863

Compliance Statements

- EU RoHS
- REACH SVHC
- Low-Halogen

Industry Documents

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

Substances of Interest

- PFAS

EU RoHS Certificate of Compliance

Additional Product Compliance Information

Part Details

General

Status	Active
Category	PCB Headers and Receptacles
Series	43045
Description	Micro-Fit 3.0 Vertical Header, 3.00mm Pitch, Dual Row, 12 Circuits, with Solder Tab, Gold, Glow-Wire Capable, Black, Tape and Reel
Application	Power, Wire-to-Board
Comments	High Temperature, Square Pin, Solder Type; This Molex product is manufactured from material that has the following ratings, tested by independent agencies: a) A Glow Wire Ignition Temperature (GWIT)

	of at least 775 deg C per IEC 60695-2-13. b) A Glow Wire Flammability Index (GWFI) above 850 deg C per IEC 60695-2-12 and hence complies with the requirements set out in the International Standard IEC 60335-1 5th edition - household and similar electrical appliances - safety, section 30 Resistance to heat and fire. The customers using this product must determine its suitability for use in their particular application through testing or other acceptable means as described in end-product glow-wire flammability test standard IEC 60695-2-11 and any applicable product end-use standard(s). If it is determined during the customer's evaluation of suitability, that higher performance is required, please contact Molex for possible product options.
Component Type	PCB Header
Product Name	Micro-Fit 3.0
UPC	800754373333

Agency

CSA	LR19980
UL	E29179

Electrical

Current - Maximum per Contact	8.5A
Voltage - Maximum	600V

Physical

Breakaway	No
Circuits (Loaded)	12
Circuits (maximum)	12
Color - Resin	Black

Durability (mating cycles max)	30
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Capable	Yes
Mated Height	17.64mm
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Net Weight	1.922/g
Number of Rows	2
Orientation	Vertical
Packaging Type	Embossed Tape on Reel
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness - Recommended	1.60mm
Pitch - Mating Interface	3.00mm
Plating min - Mating	0.762µm
Plating min - Termination	2.540µm
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-40° to +125°C
Termination Interface Style	Surface Mount

Solder Process Data

Max-Duration	30
Lead-Free Process Capability	REFLOW
Max-Cycle	3
Max-Temp	260

Mates With / Use With

Mates with Part(s)

Description	Part Number

Micro-Fit 3.0 Dual Row Receptacle Housings	43025
Micro-Fit TPA Receptacle Housings	172952