molex



Part Number : 431606304
Product Description : Sabre Vertical Header, 7.50mm Pitch, 4 Circuits, Glow-Wire Capable, 5.33mm Tail Length, for 3.20mm PCB, with Board Lock
Series Number : 43160
Status : Active
Product Category : PCB Headers and Receptacles

Documents and Resources

Drawings

431606304_sd.pdf

PK-43789-001-001.pdf

3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

Symbol and Footprint (Multi-Format)

SYM-43160-2104-001.zip

Specifications

PS-44441-9999-001.pdf

Product Environment Compliance

Compliance

GADSL/IMDS	Compliant with Exemption 44; 33
China RoHS	per SJ/T 11365-2006
EU ELV	Not Relevant
Low-Halogen Status	Not Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2025)7771-DC (04 Feb 2026)
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	43160
Description	Sabre Vertical Header, 7.50mm Pitch, 4 Circuits, Glow-Wire Capable, 5.33mm Tail Length, for 3.20mm PCB, with Board Lock
Application	Power, Wire-to-Board
Comments	Fully Polarized, high power wire-to-board and wire-to-wire connector system; 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	Sabre
UPC	800753845817

Agency

CSA	LR19980
UL	E29179

Electrical

Current - Maximum per Contact	18.0A
Voltage - Maximum	600V

Physical

Breakaway	No
Circuits (Loaded)	4
Circuits (maximum)	4
Color - Resin	Black
Durability (mating cycles max)	25
First Mate / Last Break	No
Glow-Wire Capable	Yes
Guide to Mating Part	No
Keying to Mating Part	No

Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Matte Tin
Material - Plating Termination	Matte Tin
Material - Resin	Nylon
Net Weight	5.221/g
Number of Rows	1
Orientation	Vertical
Packaging Type	Tray
PCB Locator	No
PCB Retention	Yes
PCB Thickness - Recommended	3.20mm
PC Tail Length	5.33mm
Pitch - Mating Interface	7.50mm
Pitch - Termination Interface	7.50mm
Plating min - Mating	1.520µm
Plating min - Termination	1.520µm
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-40° to +105°C
Termination Interface Style	Through Hole

Solder Process Data

Max-Duration	5
Lead-Free Process Capability	WAVE
Max-Cycle	1
Max-Temp	235

Mates With / Use With

Mates with Part(s)

Description	Part Number
7.50mm Pitch Sabre Receptacle	444412004

Crimp Housing, UL 94V-0, 4 Circuits, Black	