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Part Number:

0431601103

Status:

Active

Overview:

Sabre Power Connector

Description:

Sabre Right-Angle Header, 3 Circuits, Glow-Wire Capable, PCB Thickness 1.60mm, without Board Lock

Documents:

- [Drawing \(PDF\)](#)

[3D Model](#)

[3D Model \(PDF\)](#)

[Product Specification PS-44441-9999-001 \(PDF\)](#)

[Packaging Specification PK-43160-0010-001 \(PDF\)](#)
- [Test Summary 444410000-TS-000 \(PDF\)](#)

[Datasheet \(PDF\)](#)

[Symbol Footprint Data SYM-43160-1103-001 \(PDF\)](#)

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

Agency Certification

CSA

LR19980

UL

E29179

General

Product Family

Series

Application

Comments

PCB Headers

43160

Power, Wire-to-Board

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

Overview

Product Name

Taxonomy

UPC

PCB Header

Sabre Power Connector

Sabre

PCB Headers and Receptacles

800754377812

Physical

Breakaway

Circuits (Loaded)

Circuits (maximum)

Color - Resin

Durability (mating cycles max)

First Mate / Last Break

Flammability

Glow-Wire Capable

Guide to Mating Part

Keying to Mating Part

No

3

3

Black

25

No

94V-0

Yes

No

Yes



Series image - Reference only

EU ELV

Compliant

EU RoHS

Compliant

REACH SVHC

Not Contained Per -  
D(2022)4187-DC (10  
June 2022)

Halogen-Free

Status

Not Low-Halogen

For more information, please visit [Contact US](#)

China ROHS

ELV

RoHS Phthalates

Green Image

Compliant

Not Contained

Search Parts in this Series

43160 Series

Mates With

444412003 Sabre Receptacle Housing

|                                |                                |
|--------------------------------|--------------------------------|
| Lock to Mating Part            | Yes                            |
| Material - Metal               | Brass                          |
| Material - Plating Mating      | Tin                            |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 4.245/g                        |
| Number of Rows                 | 1                              |
| Orientation                    | Right Angle                    |
| PC Tail Length                 | 3.81mm                         |
| PCB Locator                    | Yes                            |
| PCB Retention                  | N/A                            |
| PCB Thickness - Recommended    | 1.60mm                         |
| Packaging Type                 | Bag                            |
| Pitch - Mating Interface       | 7.50mm                         |
| Pitch - Termination Interface  | 7.50mm                         |
| Plating min - Mating           | 0.889μm                        |
| Plating min - Termination      | 0.889μm                        |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | Yes                            |
| Shrouded                       | Fully                          |
| Stackable                      | No                             |
| Surface Mount Compatible (SMC) | No                             |
| Temperature Range - Operating  | -40° to +75°C                  |
| Termination Interface: Style   | Through Hole                   |

**Electrical**

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

**Solder Process Data**

|                                                |      |
|------------------------------------------------|------|
| Duration at Max. Process Temperature (seconds) | 005  |
| Lead-freeProcess Capability                    | WAVE |
| Max. Cycles at Max. Process Temperature        | 001  |
| Process Temperature max. C                     | 235  |

**Material Info**

**Reference - Drawing Numbers**

|                         |                    |
|-------------------------|--------------------|
| Packaging Specification | PK-43160-0010-001  |
| Product Specification   | PS-44441-9999-001  |
| Sales Drawing           | 431600001-SD-000   |
| Symbol/Footprint Data   | SYM-43160-1103-001 |
| Test Summary            | 444410000-TS-000   |

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