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Part Number:

0431603106

Status:

Active

Overview:

Sabre Power Connector

Description:

Sabre Right-Angle Header, 6 Circuits, Glow-Wire Capable, PCB Thickness 1.60mm, with Board Lock

Documents:

Drawing (PDF)

3D Model (PDF)

3D Model

Product Specification PS-44441-9999-001 (PDF)

Packaging Specification PK-43789-001-001 (PDF)

Datasheet (PDF)

Symbol Footprint Data SYM-43160-3106-001 (PDF)

RoHS Certificate of Compliance (PDF)

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Agency Certification |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| CSA                  | LR19980                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| UL                   | E29179                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| General              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Product Family       | PCB Headers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Series               | 43160                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Overview             | Sabre Power Connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Product Name         | Sabre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Taxonomy             | PCB Headers and Receptacles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| UPC                  | 800754378284                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|                                |       |
|--------------------------------|-------|
| Physical                       |       |
| Breakaway                      | No    |
| Circuits (Loaded)              | 6     |
| Circuits (maximum)             | 6     |
| Color - Resin                  | Black |
| Durability (mating cycles max) | 25    |
| First Mate / Last Break        | No    |
| Flammability                   | 94V-0 |
| Glow-Wire Capable              | Yes   |
| Guide to Mating Part           | No    |
| Keying to Mating Part          | Yes   |
| Lock to Mating Part            | Yes   |



Series image - Reference only

|                                                               |               |
|---------------------------------------------------------------|---------------|
| EU ELV                                                        |               |
| Not Relevant                                                  |               |
| EU RoHS                                                       | China 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 <a href="#">Contact US</a> |               |
| China ROHS                                                    | Green Image   |
| ELV                                                           | Not Relevant  |
| RoHS Phthalates                                               | Not Contained |

Search Parts in this Series

43160 Series

Mates With

444412006 Sabre Receptacle Housing

|                                                |                                |
|------------------------------------------------|--------------------------------|
| Material - Metal                               | Brass                          |
| Material - Plating Mating                      | Tin                            |
| Material - Plating Termination                 | Tin                            |
| Material - Resin                               | High Temperature Thermoplastic |
| Net Weight                                     | 7.976/g                        |
| Number of Rows                                 | 1                              |
| Orientation                                    | Right Angle                    |
| PC Tail Length                                 | 3.81mm                         |
| PCB Locator                                    | Yes                            |
| PCB Retention                                  | Yes                            |
| PCB Thickness - Recommended                    | 1.60mm                         |
| Packaging Type                                 | Tray                           |
| 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                   |
| <b>Electrical</b>                              |                                |
| Current - Maximum per Contact                  | 18.0A                          |
| Voltage - Maximum                              | 600V                           |
| <b>Solder Process Data</b>                     |                                |
| Duration at Max. Process Temperature (seconds) | 005                            |
| Lead-freeProcess Capability                    | WAVE                           |
| Max. Cycles at Max. Process Temperature        | 001                            |
| Process Temperature max. C                     | 235                            |
| <b>Material Info</b>                           |                                |
| <b>Reference - Drawing Numbers</b>             |                                |
| Packaging Specification                        | PK-43789-001-001               |
| Product Specification                          | PS-44441-9999-001              |
| Sales Drawing                                  | 431600001-SD-000               |
| Symbol/Footprint Data                          | SYM-43160-3106-001             |

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