

Surface Mount Fuse, PTC, 1812 footprint, 4.6 x 3.2 mm, 60 VDC



6.0 - 60.0VDC · 0.1 - 2.6A

See below:

[Approvals and Compliances](#)

Description

- 100% compatible with the PFMD type
 Directly solderable on printed circuit boards

Applications

- Hard disk drives
- PC motherboards
- PC peripherals
- PCMCIA cards
- USB port protection

Weblinks

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

Technical Data

| | | | |
|---------------------------------|---|------------------------------|--|
| V max | 6.0 - 60.0VDC | Soldering Methods | Reflow |
| I max | 10 - 100A | | Soldering Profile |
| I hold | 0.1 - 2.6A | Solderability | 245 °C / 3 sec |
| Attachment | PCB, SMT | Resistance to Soldering Heat | 260 °C / 10 sec |
| Allowable Operation Temperature | -40 °C to 85 °C | Moisture Sensitivity Level | MSL 1, J-STD-020 |
| Material: Terminals | Electroless Nickel under Immersion Gold | Passing Aging | +85 °C, 1000 Hours -> +/- 5% Typical Resistance Change |
| Weight | 0.025 g | Humidity Aging | +85 °C, 85% r.h., 1000 Hours -> +/- 5% Typical Resistance Change |
| Storage Conditions | 0 °C to 40 °C, max. 70% r.h. | Thermal Shock | +85 °C to -40 °C, 20 Times -> +/- 10% Typical Resistance Change |
| Product Marking | I hold, Data Code | Vibration | MIL-STD-883C, Method 2007.1, Test Condition A |
| | | Resistance to Solvents | MIL-STD-202, Method 215 |

Approvals and Compliances



Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [Details about Approvals](#)

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Approvals





The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: PFMF

| Approval Logo | Certificates | Certification Body | Description |
|---|--------------------------------|--------------------|--------------------------------|
|  | TUEV Approvals | TUEV | Technischer Überwachungsverein |
|  | UL Approvals | UL | UL File Number: E172175 |

Product standards

Product standards that are referenced

| Organization | Design | Standard | Description |
|--|-----------------------|------------------------------|---|
|  | Designed according to | 62319-1-1 | Polymeric thermistors. Part 1-1: Current limiting application |
|  | Designed according to | IEC 62319-1-1 | Miniature fuses. Part 2. Cartridge fuse links |
|  | Designed according to | UL 1434 | Thermistor-type devices |
|  | Designed according to | CSA 22.2 No. 0 TIL No. CA-3A | General requirements - Canadian electrical code, part II |






Application standards

Application standards where the product can be used


| Organization | Design | Standard | Description |
|--|--------------------------------|----------------|---|
|  | Designed for applications acc. | IEC/UL 62368-1 | Audio/video, information and communication technology equipment - Part 1: Safety requirements |

Compliances

The product complies with following Guide Lines

| Identification | Details | Initiator | Description |
|--|--|-------------|---|
|  | CE declaration of conformity | SCHURTER AG | The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008. |
|  | UKCA declaration of conformity | SCHURTER AG | The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008. |
|  | RoHS | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 |
|  | China RoHS | SCHURTER AG | The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS. |
|  | REACH | SCHURTER AG | On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force. |

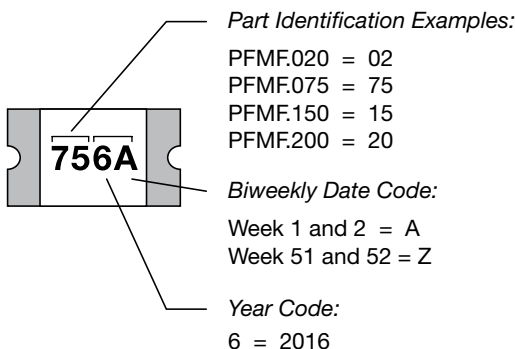
Dimension [mm]

 4.6 mm

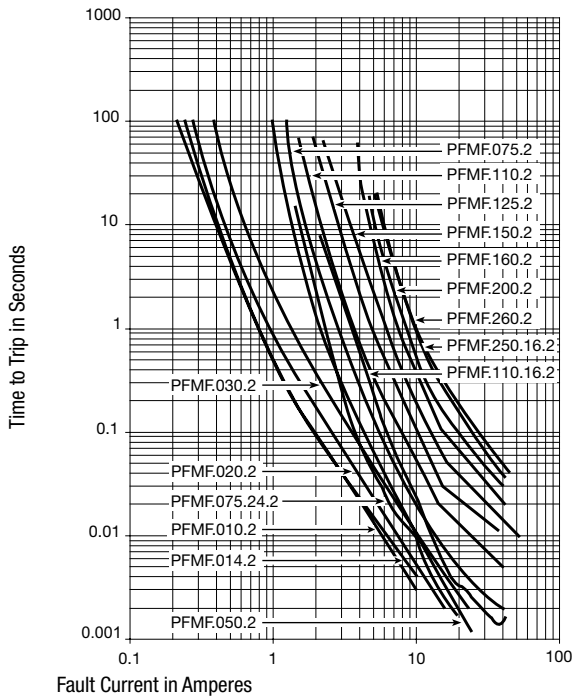


Soldering pads

Part marking



Time-Current-Curves



Dimensions

| A min [mm] | A max [mm] | B min [mm] | B max [mm] | C min [mm] | C max [mm] | D min [mm] | Order Number |
|------------|------------|------------|------------|------------|------------|------------|---------------|
| 4.37 | 4.73 | 3.07 | 3.41 | 0.7 | 1.1 | 0.3 | PFMF.010.2 |
| 4.37 | 4.73 | 3.07 | 3.41 | 0.7 | 1.1 | 0.3 | PFMF.014.2 |
| 4.37 | 4.73 | 3.07 | 3.41 | 0.7 | 1.1 | 0.3 | PFMF.020.2 |
| 4.37 | 4.73 | 3.07 | 3.41 | 0.7 | 1.1 | 0.3 | PFMF.030.2 |
| 4.37 | 4.73 | 3.07 | 3.41 | 0.55 | 0.85 | 0.3 | PFMF.050.2 |
| 4.37 | 4.73 | 3.07 | 3.41 | 0.55 | 0.85 | 0.3 | PFMF.075.2 |
| 4.37 | 4.73 | 3.07 | 3.41 | 0.55 | 0.85 | 0.3 | PFMF.075.24.2 |
| 4.37 | 4.73 | 3.07 | 3.41 | 0.45 | 0.85 | 0.3 | PFMF.110.2 |
| 4.37 | 4.73 | 3.07 | 3.41 | 0.45 | 0.85 | 0.3 | PFMF.110.16.2 |
| 4.37 | 4.73 | 3.07 | 3.41 | 0.55 | 0.85 | 0.3 | PFMF.125.2 |
| 4.37 | 4.73 | 3.07 | 3.41 | 0.55 | 0.85 | 0.3 | PFMF.150.2 |
| 4.37 | 4.73 | 3.07 | 3.41 | 0.55 | 0.85 | 0.3 | PFMF.160.2 |
| 4.37 | 4.73 | 3.07 | 3.41 | 0.55 | 0.85 | 0.3 | PFMF.200.2 |
| 4.37 | 4.83 | 3.07 | 3.41 | 0.7 | 1.6 | 0.3 | PFMF.250.16.2 |
| 4.37 | 4.73 | 3.07 | 3.41 | 0.48 | 0.85 | 0.3 | PFMF.260.2 |

Most Popular.

Availability for all products can be searched real-time: <https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

Thermal Derating Chart Ihold [A]

| Order Number | -40 °C | -20 °C | 0 °C | 23 °C | 40 °C | 50 °C | 60 °C | 70 °C | 85 °C | Order Number |
|---------------|--------|--------|------|-------|-------|-------|-------|-------|-------|---------------|
| PFMF.010.2 | 0.16 | 0.14 | 0.12 | 0.1 | 0.08 | 0.07 | 0.06 | 0.05 | 0.03 | PFMF.010.2 |
| PFMF.014.2 | 0.23 | 0.19 | 0.17 | 0.14 | 0.12 | 0.1 | 0.09 | 0.08 | 0.06 | PFMF.014.2 |
| PFMF.020.2 | 0.29 | 0.26 | 0.23 | 0.2 | 0.17 | 0.15 | 0.14 | 0.12 | 0.1 | PFMF.020.2 |
| PFMF.030.2 | 0.44 | 0.39 | 0.35 | 0.3 | 0.26 | 0.23 | 0.21 | 0.18 | 0.15 | PFMF.030.2 |
| PFMF.050.2 | 0.77 | 0.68 | 0.59 | 0.5 | 0.44 | 0.4 | 0.37 | 0.33 | 0.29 | PFMF.050.2 |
| PFMF.075.2 | 1.15 | 1.01 | 0.88 | 0.75 | 0.65 | 0.6 | 0.55 | 0.49 | 0.43 | PFMF.075.2 |
| PFMF.075.24.2 | 1.15 | 1.01 | 0.88 | 0.75 | 0.65 | 0.6 | 0.55 | 0.49 | 0.43 | PFMF.075.24.2 |