

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

### References

[Packaging Details](#)

### Weblinks

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

### Technical Data

|                                 |  |
|---------------------------------|--|
| V max                           | 6.0 - 60.0VDC                          |
| I <sub>max</sub>                | 10 - 100A                              |
| I hold                          | 0.1 - 2.6A                             |
| Attachment                      | PCB,SMT                                |
| Allowable Operation Temperature | -40 °C to 85 °C                        |
| Material: Terminals             | Electroless Nickel under Immerion Gold |
| Weight                          | 0.025 g                                |
| Storage Conditions              | 0 °C to 40 °C, max. 70% r.h.           |
| Product Marking                 | I hold, Data Code                      |

|                              |  |
|------------------------------|--|
| Soldering Methods            | Reflow<br><a href="#">Soldering Profile</a>                      |
| Solderability                | 245 °C / 3sec  |
| Resistance to Soldering Heat | 260 °C / 10sec   |
| Moisture Sensitivity Level   | MSL 1, J-STD-020   |
| Passing Aging                | +85 °C, 1000 Hours -> +/- 5% Typical Resistance Change           |
| Humidity Aging               | +85 °C, 85% r.h., 1000 Hours -> +/- 5% Typical Resistance Change |
| Thermal Shock                | +85 °C to -40 °C, 20 Times -> +/- 10% Typical Resistance Change  |
| 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                    |
|---------------|--------------------------------|--------------------|--------------------------------|
|               | <a href="#">TUEV Approvals</a> | TUEV               | Technischer Überwachungsverein |
|               | <a href="#">UL Approvals</a>   | UL                 | UL File Number: E172175        |

**Product standards**

Product standards that are referenced

| Organization   | Design                | Standard                     | Description  |
|--|-----------------------|------------------------------|--|
|  | 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 | IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment. |

**Compliances**

The product complies with following Guide Lines

| Identification   | Details                                      | Initiator   | Description   |
|--|--|-------------|---|
|  | <a href="#">CE declaration of conformity</a> | 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. |
|  | 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

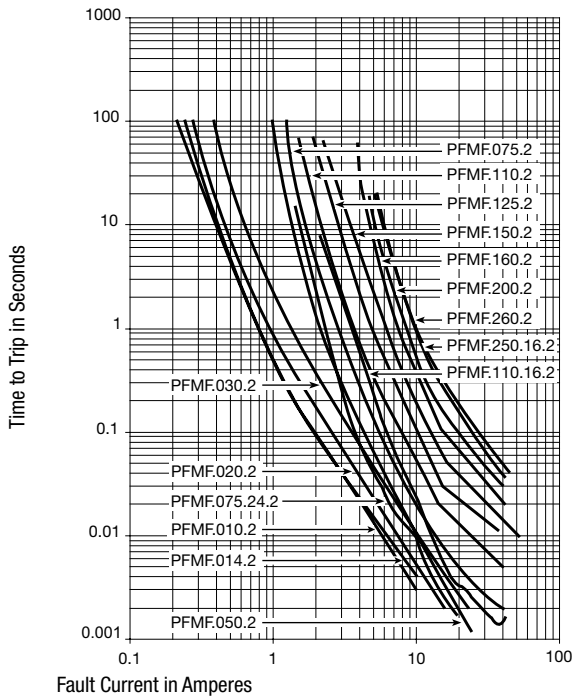


Soldering pads

**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    |

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### 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 |

| Order Number  | -40 °C | -20 °C | 0 °C | 23 °C | 40 °C | 50 °C | 60 °C | 70 °C | 85 °C | Order Number  |
|---------------|--------|--------|------|-------|-------|-------|-------|-------|-------|---------------|
| PFMF.110.2    | 1.59   | 1.43   | 1.26 | 1.1   | 0.95  | 0.87  | 0.8   | 0.71  | 0.6   | PFMF.110.2    |
| PFMF.110.16.2 | 1.59   | 1.43   | 1.26 | 1.1   | 0.95  | 0.87  | 0.8   | 0.71  | 0.6   | PFMF.110.16.2 |
| PFMF.125.2    | 1.8    | 1.63   | 1.43 | 1.25  | 1.08  | 0.99  | 0.91  | 0.81  | 0.68  | PFMF.125.2    |
| PFMF.150.2    | 2.17   | 1.95   | 1.72 | 1.5   | 1.3   | 1.18  | 1.09  | 0.97  | 0.82  | PFMF.150.2    |
| PFMF.160.2    | 2.3    | 2.2    | 1.9  | 1.6   | 1.45  | 1.3   | 1.15  | 1.03  | 0.91  | PFMF.160.2    |
| PFMF.200.2    | 3.08   | 2.71   | 2.35 | 2     | 1.8   | 1.6   | 1.5   | 1.4   | 1.25  | PFMF.200.2    |
| PFMF.250.16.2 | 3.9    | 3.42   | 2.96 | 2.5   | 2.24  | 1.98  | 1.85  | 1.29  | 0.94  | PFMF.250.16.2 |
| PFMF.260.2    | 4      | 3.52   | 3.06 | 2.6   | 2.34  | 2.08  | 1.95  | 1.39  | 1.04  | PFMF.260.2    |

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### Electrical Characteristics at 23 °C

| V max [VDC] | I max [A] | I hold [A] | I trip [A] | R initial min [Ω] | R 1hour max [Ω] | Max Time to trip [A] | Max Time to Trip [s] | Tripped Power Dissipation [W] | Order Number  |
|-------------|-----------|------------|------------|-------------------|-----------------|----------------------|----------------------|-------------------------------|---------------|
| 60.0        | 40        | 0.1        | 0.3        | 0.7               | 15              | 0.5                  | 1.5                  | 0.80                          | PFMF.010.2    |
| 60.0        | 40        | 0.14       | 0.34       | 0.4               | 6.5             | 1.5                  | 0.15                 | 0.80                          | PFMF.014.2    |
| 30.0        | 80        | 0.2        | 0.4        | 0.4               | 6               | 6                    | 0.06                 | 0.80                          | PFMF.020.2    |
| 30.0        | 10        | 0.3        | 0.6        | 0.3               | 3               | 8                    | 0.1                  | 0.80                          | PFMF.030.2    |
| 15.0        | 100       | 0.5        | 1          | 0.15              | 1               | 8                    | 0.15                 | 0.80                          | PFMF.050.2    |
| 13.2        | 100       | 0.75       | 1.5        | 0.11              | 0.45            | 8                    | 0.2                  | 0.80                          | PFMF.075.2    |
| 24.0        | 40        | 0.75       | 1.5        | 0.11              | 0.45            | 8                    | 0.2                  | 0.80                          | PFMF.075.24.2 |
| 6.0         | 100       | 1.1        | 2.2        | 0.04              | 0.21            | 8                    | 0.3                  | 0.80                          | PFMF.110.2    |
| 16.0        | 100       | 1.1        | 2.2        | 0.04              | 0.21            | 8                    | 0.3                  | 0.80                          | PFMF.110.16.2 |
| 6.0         | 100       | 1.25       | 2.5        | 0.035             | 0.14            | 8                    | 0.4                  | 0.80                          | PFMF.125.2    |
| 6.0         | 100       | 1.5        | 3          | 0.03              | 0.12            | 8                    | 0.5                  | 0.80                          | PFMF.150.2    |
| 8.0         | 100       | 1.6        | 2.8        | 0.035             | 0.099           | 8                    | 2                    | 0.80                          | PFMF.160.2    |
| 8.0         | 40        | 2          | 4          | 0.02              | 0.08            | 8                    | 3                    | 0.80                          | PFMF.200.2    |
| 16.0        | 100       | 2.5        | 5          | 0.015             | 0.1             | 8                    | 5                    | 1.20                          | PFMF.250.16.2 |
| 6.0         | 100       | 2.6        | 5.2        | 0.015             | 0.08            | 8                    | 5                    | 0.80                          | PFMF.260.2    |

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| Packaging Unit |                         |                                     |
|----------------|-------------------------|-------------------------------------|
|                | PFMF.010.2 - PFMF.030.2 | Blister Tape 18 cm Reel (1500 pcs.) |
|                | PFMF.050.2 + PFMF.260.2 | Blister Tape 18 cm Reel (2000 pcs.) |

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