

Surface Mount Fuse, 7.4 x 3.1 mm, Quick-Acting F, Telecom



UL 248-14 · 125VAC · 125VDC · Quick-Acting F

**Description**

- Directly solderable on printed circuit boards
- Fuseholder available

**Standards**

- UL 248-14
- CSA C22.2 no. 248.14
- Telcordia GR-1089
- UL 60950 / IEC 60950
- ITU-T K.20 and K.21
- TIA-968-A

**Approvals**

- UL File Number: E41599

**Applications**

- xDSL and ADSL linecards and modems

**References**

[General Product Information](#)

Time-Current Curves see last page

Corresponding Fuseholder [OMH 125](#)

[Packaging Details](#)

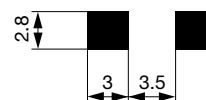
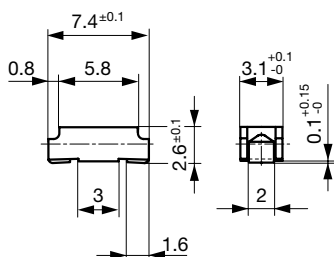
**Weblinks**

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

**Technical Data**

|                              |                                                                                                                       |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Rated Voltage                | 125 VAC, 125 VDC                                                                                                      |
| Rated Current                | 0.25 - 3.15 A                                                                                                         |
| Breaking Capacity            | 100 A                                                                                                                 |
| Characteristic               | Quick-Acting F                                                                                                        |
| Mounting                     | PCB, SMT                                                                                                              |
| Admissible Ambient Air Temp. | -40 °C to 85 °C                                                                                                       |
| Climatic Category            | 40/085/21 acc. to IEC 60068-1                                                                                         |
| Material: Housing            | Thermoplastic, UL 94V-0                                                                                               |
| Material: Terminals          | Tin-Plated Copper Alloy                                                                                               |
| Unit Weight                  | 0.08 g                                                                                                                |
| Storage Conditions           | 0 °C to 60 °C, max. 70% r.h.                                                                                          |
| Product Marking              |  , Type, Current Rating, Approvals |

|                              |                                                                   |
|------------------------------|-------------------------------------------------------------------|
| Soldering Methods            | Reflow, Wave                                                      |
| Solderability                | 245 °C / 3 sec acc. to IEC 60068-2-58, Test Td                    |
| Resistance to Soldering Heat | 260 °C / 10 sec acc. to IEC 60068-2-58, Test Td                   |
| Load Humidity Test           | MIL-STD-202, Method 103B (1000h @ 0.1*In @ 0.85 r.H. @ 85 °C)     |
| Moisture Resistance Test     | MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)    |
| Terminal Strength            | MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)  |
| Case Resistance              | acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)     |
| Mechanical Shock             | MIL-STD-202, Method 213B (Shock 50gn, half sine wave, 11 ms)      |
| Vibration, High Frequency    | MIL-STD-202, Method 204D (Shock 20 gn, 20 min, 10-2 kHz, 12 cyc.) |
| Resistance to Solvents       | MIL-STD-202, Method 215A                                          |
| Flammability                 | min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)                     |

**Dimensions**Length  7.4 mm

Solder pads

Fuses

**SCHURTER**  
ELECTRONIC COMPONENTS

## Pre-Arcing Time

Rated Current  $I_n$     1.0 x  $I_n$  min.    2.0 x  $I_n$  max.    4.0 x  $I_n$  max.

0.25 A - 3.15 A    4 h    1 s    10 ms

## Variants

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Voltage Drop 1.0 $I_n$ typ. [mV] | Power Dissipation 1.0 $I_n$ typ. [mW] | Melting $I^2t$ 4.0 $I_n$ typ. [A <sup>2</sup> s] | GR-1089-CORE [A] | UL60950 | ITU - Lightning Surge [A] | ITU - Power Induc- | ITU - Power Contact [A] | Order Number |
|-------------------|---------------------|---------------------|----------------------------------|---------------------------------------|--------------------------------------------------|------------------|---------|---------------------------|--------------------|-------------------------|--------------|
| 0.25              | 125                 | 125                 | 990                              | 250                                   | 0.0058                                           | < 1.5            |         | 2.5                       |                    | 50.0                    | 2060.0006.xx |
| 0.35              | 125                 | 125                 | 990                              | 350                                   | 0.0076                                           | < 1.5            |         | 4                         |                    | 25.0                    | 2060.0043.xx |
| 0.375             | 125                 | 125                 | 990                              | 370                                   | 0.013                                            | < 1.5            |         | 4.6                       | ●                  | 25.0                    | 2060.0044.xx |
| 0.4               | 125                 | 125                 | 960                              | 380                                   | 0.016                                            | < 1.5            |         | 5.8                       | ●                  | 25.0                    | 2060.0007.xx |
| 0.5               | 125                 | 125                 | 350                              | 180                                   | 0.01                                             | 2.5              |         | 7.7                       | ●                  | 25.0                    | 2060.0045.xx |
| 0.63              | 125                 | 125                 | 290                              | 180                                   | 0.02                                             | 4.6              |         | 10                        | ●                  | 25.0                    | 2060.0008.xx |
| 0.75              | 125                 | 125                 | 260                              | 200                                   | 0.031                                            | 7.0              |         | 13                        | ●                  | 25.0                    | 2060.0046.xx |
| 1                 | 125                 | 125                 | 220                              | 220                                   | 0.078                                            | 9.3              |         | 16                        | ●                  | 25.0                    | 2060.0009.xx |
| 1.25              | 125                 | 125                 | 220                              | 280                                   | 0.14                                             | > 14.0           |         | 25                        | ●                  | 25.0                    | 2060.0010.xx |
| 1.5               | 125                 | 125                 | 200                              | 300                                   | 0.24                                             | > 14.0           |         | 30                        | ●                  | 8.3                     | 2060.0047.xx |
| 1.6               | 125                 | 125                 | 200                              | 320                                   | 0.27                                             | > 14.0           |         | 33                        | ●                  | 12.5                    | 2060.0011.xx |
| 2                 | 125                 | 125                 | 200                              | 400                                   | 0.44                                             | > 14.0           |         | 45                        | ●                  | 8.3                     | 2060.0012.xx |
| 2.5               | 125                 | 125                 | 190                              | 480                                   | 0.97                                             | > 14.0           |         | 67                        | ●                  | 8.3                     | 2060.0013.xx |
| 3                 | 125                 | 125                 | 190                              | 570                                   | 1.3                                              | > 14.0           |         | 67                        | ●                  | 8.3                     | 2060.0014.xx |
| 3.15              | 125                 | 125                 | 190                              | 600                                   | 1.2                                              | > 14.0           |         | 67                        | ●                  | 8.3                     | 2060.0048.xx |

1) 100 A @ 125 VAC/DC

## Packaging Unit

.xx = .11 Plastic Bag (100 pcs.)  
 .xx = .22 Blister Tape 18 cm Reel (750 pcs.)  
 .xx = .24 Blister Tape 33 cm Reel (3000 pcs.)

## Time-Current Curves

