

Surface Mount Fuse with Clip, 11.1 x 3.8 mm, Time-Lag T, UMZ 250 = UMT 250 (Au) + UMC 250

new



IEC 60127-4 · 250VAC · 125VDC · Time-Lag T



Description

- Explanation VDE/UL Approvals UMT 250, UMT 250 (Au), UMC 250 , see variants
- High breaking capacity of 200 A @ 250 VAC (IEC)
- UL approval for 277 VAC and 250 VDC

Standards

- IEC 60127-4/2
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- VDE License Number: 40013121
- UL File Number: E39328

Applications

- Primary Protection on SMD PCB
- Industrial electronic

References

- [General Product Information](#)
- [Packaging Details](#)

Weblinks

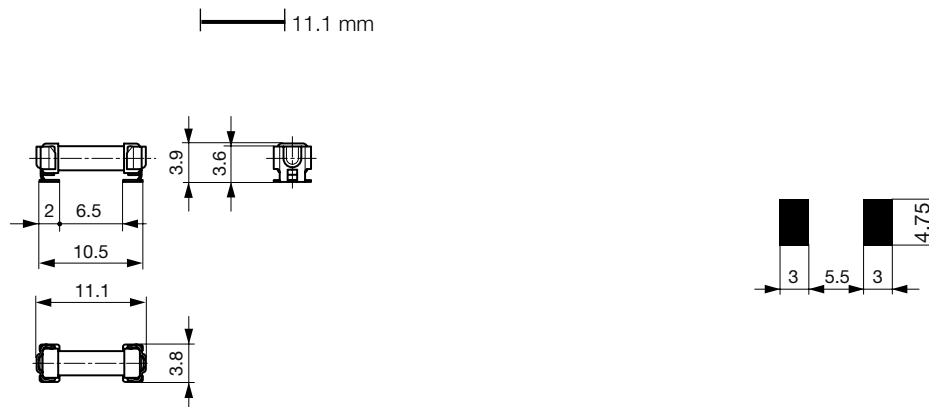
- [Approvals, RoHS, CHINA-RoHS, SCHURTER-Stock-Check, Distributor-Stock-Check](#)

Technical Data

| | |
|------------------------------|---|
| Rated Voltage | 250VAC, 125VDC |
| Rated Current | 0.08 - 4A |
| Breaking Capacity | 200A |
| Characteristic | Time-Lag T |
| Mounting | PCB,SMT |
| Admissible Ambient Air Temp. | -40°C to 85°C |
| Climatic Category | 40/085/21 acc. to IEC 60068-1 |
| Material: Housing | Ceramic |
| Material: Terminals | Gold-Plated Copper Alloy |
| Storage Conditions | 0°C to 60°C, max. 70% r.h. |
| Product Marking | , Current, Voltage, Characteristic, Breaking Capacity |

| | |
|------------------------------|--|
| Soldering Methods | Reflow |
| Solderability | 245 °C / 3sec acc. to IEC 60068-2-58, Test Td |
| Resistance to Soldering Heat | 260 °C / 40sec acc. to IPC/JEDEC J-STD-020D, 1 cycle |
| Life Test | MIL-STD-202, Method 108A (1000h @ 0.42*In @ 70°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) |
| Mechanical Shock | MIL-STD-202, Method 213B (Shock 50gn, half sine wave, 11 ms) |
| Resistance to Solvents | MIL-STD-202, Method 215A |
| Flammability | min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12) |

Dimensions



Soldering pads

Pre-Arcing Time

| Rated Current In | 1.25 x In min. | 2.0 x In max. | 10.0 x In min. | 10.0 x In max. |
|------------------|----------------|---------------|----------------|----------------|
| 0.08 A - 4.0 A | 60 min | 120 s | 10 ms | 100 ms |

Variants

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 In max. [mV] | Voltage Drop 1.0 In typ. [mV] | Power Dissipation 1.25 In max [mW] | Melting I ² t 10.0 Intyp. [A ² s] | Order Number |
|-------------------|---------------------|---------------------|-------------------|-------------------------------|-------------------------------|------------------------------------|---|--------------|
| 0.08 | 250 | 125 | 1) | - | 1030 | - | 0.022 | 3404.2405.xx |
| 0.1 | 250 | 125 | 1) | 1300 | 850 | 200 | 0.04 | 3404.2406.xx |
| 0.125 | 250 | 125 | 1) | 1000 | 700 | 200 | 0.055 | 3404.2407.xx |
| 0.16 | 250 | 125 | 1) | 1000 | 540 | 240 | 0.057 | 3404.2408.xx |
| 0.2 | 250 | 125 | 1) | 1000 | 460 | 500 | 0.092 | 3404.2409.xx |
| 0.25 | 250 | 125 | 1) | 800 | 395 | 500 | 0.2 | 3404.2410.xx |
| 0.315 | 250 | 125 | 1) | 750 | 344 | 500 | 0.27 | 3404.2411.xx |
| 0.4 | 250 | 125 | 1) | 700 | 320 | 500 | 0.4 | 3404.2412.xx |
| 0.5 | 250 | 125 | 1) | 600 | 264 | 500 | 0.54 | 3404.2413.xx |
| 0.63 | 250 | 125 | 1) | 500 | 216 | 500 | 1.1 | 3404.2414.xx |
| 0.8 | 250 | 125 | 1) | 400 | 174 | 500 | 1.4 | 3404.2415.xx |
| 1 | 250 | 125 | 1) | 300 | 174 | 500 | 2.8 | 3404.2416.xx |
| 1.25 | 250 | 125 | 1) | 300 | 140 | 1000 | 4.5 | 3404.2417.xx |
| 1.6 | 250 | 125 | 1) | 300 | 130 | 1000 | 6.9 | 3404.2418.xx |
| 2 | 250 | 125 | 1) | 300 | 103 | 1000 | 7.3 | 3404.2419.xx |
| 2.5 | 250 | 125 | 1) | 300 | 90 | 1200 | 7.5 | 3404.2420.xx |
| 3.15 | 250 | 125 | 1) | 300 | 95 | 1500 | 14 | 3404.2421.xx |
| 4 | 250 | 125 | 1) | 300 | 83 | 2000 | 26 | 3404.2422.xx |

1) IEC: 200 A @ 250 VAC, p.f. ≥ 0.95 / 100 A @ 125 VDC

1) UL: 200 A @ 277 VAC / 100 A @ 125 VDC / 35 A @ 250 VDC / 200 A @ 63 VAC/DC

Approval Overview

UMT 250 -> Fuse with tin-plated caps, Approval Status: VDE, UL LISTED, cURus, Free of CCC, PSE JET, KTL

UMT 250 (Au) -> Fuse with gold-plated caps, Approval Status: VDE Mark and cURus

UMC 250 -> Clip, Approval Status: VDE UG Mark and cURus

UMZ 250 = UMT 250 (Au) + UMC 250

There is no approval existing for the combination fuse and clip UMZ 250, but the fuse and the clip are fully approved independently at VDE/UL. See details above.

In the reflow soldering process, the fuse must have gold-plated caps, otherwise fuse and clip would be soldered together. For fuse replacement in the field, a standard UMT 250 fuse with tin-plated caps can be used.

Packaging Unit

- .xx = .11 Plastic Bag (100 pcs.)
- .xx = .22 Blister Tape 33 cm Reel (1000 pcs.)

Time-Current-Curves

