

Surface Mount Fuses

Subminiature Surface Mount

RoHS NANO²® 250V UMF FUSE Time Lag 465 Series



- The Surface Mount Nano² 250V UMF product family complies with IEC Publication IEC 60127-4-Universal Modular Fuse-Links [UMF]. This IEC standard has been accepted by UL/CSA making it the first global fuse standard.
- The Nano² 250V UMF fuse family is based on the proven NANO² Fuse product technology.
- Product is **RoHS Compliant** and compatible with lead-free solders and higher temperature profiles.

ELECTRICAL CHARACTERISTICS:

| % of Ampere Rating | Opening Time |
|--------------------|---|
| 125% | 1 hour, Minimum |
| 200% | 2 minutes, Maximum |
| 1000% | 0.01 sec, Min ; 0.1 sec Max |

AGENCY APPROVALS: Listed to IEC 60127-4, Universal Modular Fuse-Links (UMF), 250V. UL Listed. Approved by METI and CCC. K and VDE .

AGENCY FILE NUMBERS: UL E184655. METI NBK30502-E184655a,b.

INTERRUPTING RATINGS: 100 amperes at 250VAC

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature: -55°C to 125°C.

Shock: MIL-STD-202, Method 213, Test Condition A.

Vibration: MIL-STD-202, Method 201 (10–55 Hz).

Insulation Resistance (After Opening): IEC60127-4 (0.1MΩ min @ 500VDC).

Resistance to Soldering Heat: IEC60127-4.

Thermal Shock: MIL-STD-202, Method 107, Test Condition B (-65 to 125°C, 5 cycles).

Moisture Resistance: MIL-STD-202, Method 106

PHYSICAL SPECIFICATIONS:

Materials: Body: High Performance Ceramic
Terminations: Silver plated brass.

Soldering Parameters:

Wave Solder — 260°C, 10 seconds maximum

Reflow Solder — 260°C, 30 seconds maximum

Solderability: IEC60127-4.

PACKAGING SPECIFICATIONS: 24mm Tape and Reel per EIA-RS481-1 (IEC 286, part 3); 1,500 per reel, add packaging suffix, DR.

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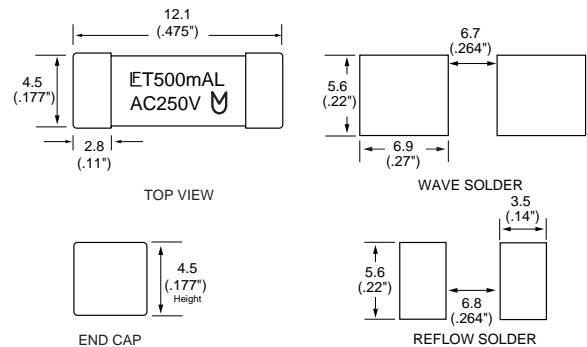
ORDERING INFORMATION:

| Catalog Number | Ampere Rating | Voltage Rating | Nominal Cold Resistance (Ohms) | Nominal Melting I ² t (A ² sec) |
|----------------|---------------|----------------|--------------------------------|---|
| 0465 001. | 1.0 | 250 | 0.107 | 2.8 |
| 0465 1.25 | 1.25 | 250 | 0.083 | 5.6 |
| 0465 01.6 | 1.6 | 250 | 0.056 | 9.2 |
| 0465 002. | 2.0 | 250 | 0.039 | 14.9 |
| 0465 02.5 | 2.5 | 250 | 0.026 | 21.0 |
| 0465 3.15 | 3.15 | 250 | 0.021 | 31.7 |
| 0465 004. | 4.0 | 250 | 0.016 | 48.4 |
| 0465 005. | 5.0 | 250 | 0.0130 | 87.0 |
| 0465 06.3 | 6.3 | 250 | 0.0088 | 144.4 |

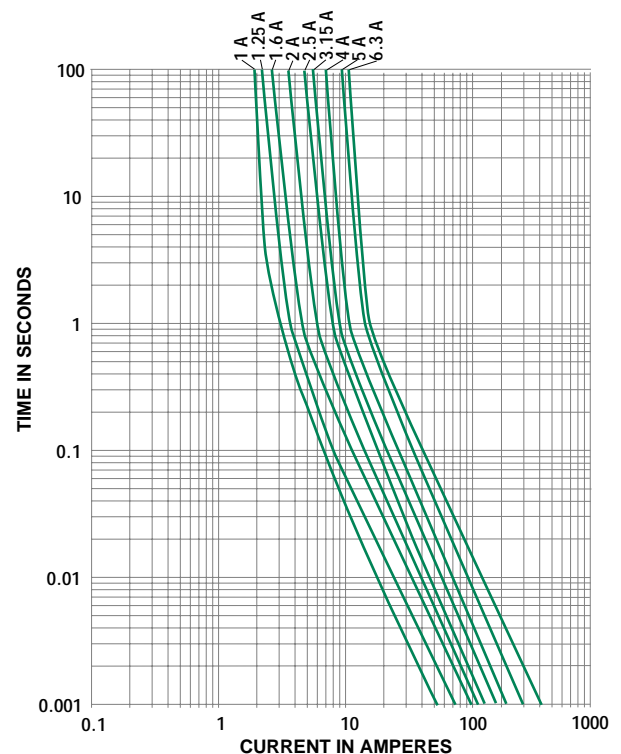
*For information and availability of additional ratings please contact Littelfuse



Reference Dimensions:



Average Time Current Curves



10
SURFACE MOUNT FUSES