

Surface Mount Fuses

Subminiature Surface Mount

RoHS NANO²® UMF Fast-Acting Fuse 455 Series



- The Nano² UMF Fuse is a very small, square surface mount fuse design.
- Designed to International (IEC) Standards for use globally.
- Meets IEC 60127-4 UMF specifications for Fast-Acting Fuses
- **RoHS Compliant** version now available, use ordering suffix 'L' (see example on data sheet).

ELECTRICAL CHARACTERISTICS:

| % of Ampere Rating | Opening Time |
|--------------------|--|
| 125% | 1 hour, Minimum |
| 200% | 2 minutes, Maximum |
| 1000% | 0.001 sec, Min ; .01 sec Max |

AGENCY APPROVALS: Listed to IEC 60127-4, Universal Modular Fuse-Links (UMF), 125V.

AGENCY FILE NUMBERS: UL E184655.

INTERRUPTING RATINGS: 50 amperes at 125 VAC/VDC

ENVIRONMENTAL SPECIFICATIONS:

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

Shock: MIL-STD-202, Method 2013, Test Condition I (100 G's peak for 6 milliseconds).

Vibration: MIL-STD-202, Method 2041 (10g).

Salt Spray: MIL-STD-202, Method 2015, Test Condition B.

Insulation Resistance (Open Circuit): MIL-STD-202, Method 302, Test Condition A, (10,000 ohms minimum).

Resistance to Soldering Heat: MIL-STD-202, Method 210, Test Condition B (10 sec. at 260°C).

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

Moisture Resistance: MIL-STD-202, Method 106, High Humidity (90-98 RH), Heat (65°C).

PHYSICAL SPECIFICATIONS:

Materials: Body: Ceramic
Terminations: Tin-Lead Alloy
RoHS Compliant Terminations: Gold over Nickel Plated Caps

Soldering Parameters:

Wave Solder — 260°C, 10 seconds maximum
Reflow Solder — 260°C, 30 seconds maximum

Solderability: MIL-STD-202, Method 208.

PACKAGING SPECIFICATIONS: 12mm Tape and Reel per EIA-RS481-1 (IEC 286, part3); 1,000 pieces per reel, add packaging suffix, MR; 5,000 per reel, add packaging suffix NR.

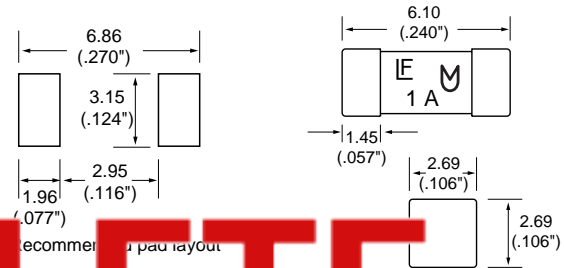
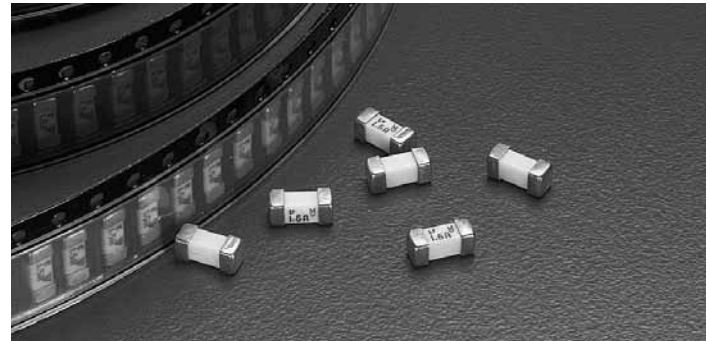
Options: For RoHS Compliant devices add the letter 'L' to end of packaging suffix. Example: 0455001.NRL (RoHS Compliant 1A, 5,000 per reel).

PATENTED

ORDERING INFORMATION:

| Catalog Number | Ampere Rating | Voltage Rating | Nominal Cold Resistance (Ohms) ¹ | Nominal Melting Pt (A ² sec) |
|----------------|---------------|----------------|---|---|
| 0455.400 | 0.4 | 125 | 0.420 | 0.0795 |
| 0455.500 | 0.5 | 125 | 0.305 | 0.143 |
| 0455 001. | 1.0 | 125 | 0.078 | 0.645 |
| 0455 01.6 | 1.6 | 125 | 0.0532 | 1.060 |

¹Measured at 10% of rated current, 25°C.



OBSOLETE

Average Time Current Curves

