

## SUBMINIATURE SURFACE MOUNT

### PICO® SMF Very Fast-Acting Type Fuse 459 Series



The PICO® SMF Very Fast-Acting Fuse provides high performance in a rectangular package suitable for reflow and wave soldering methods.

#### ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Opening Time
100%	4 hours, <b>Minimum</b>
200%	1 second, <b>Maximum</b>
300%	0.1 second, <b>Maximum</b>

**AGENCY APPROVALS:** Recognized under the Components Program of Underwriters Laboratories and Certified by CSA.

**AGENCY FILE NUMBERS:** UL E10480, CSA LR 29862.

#### INTERRUPTING RATINGS:

50 amperes at 125 VAC.  
300 amperes at 125 VDC.

#### ENVIRONMENTAL SPECIFICATIONS:

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

**Shock:** MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds).

**Vibration:** MIL-STD-202, Method 201 (10–55 Hz, .06 in. total excursion).

**Salt Spray:** MIL-STD-202, Method 101, Test Condition B (48 hrs.).

**Insulation Resistance (After Opening):** MIL-STD-202, Method 302, (10,000 ohms minimum at 100 volts).

**Resistance to Soldering Heat:** MIL-STD-202, Method 210, Test Condition F (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°).

#### PHYSICAL SPECIFICATIONS:

**Materials:** Body: Molded Thermoplastic  
Terminations: Tin-Lead Plated Copper

#### 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 (IEC 286, part 3); 500 per reel, add packaging suffix, UR.

#### PATENTED

#### ORDERING INFORMATION:

Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms	Nominal Melting I <sup>2</sup> t A <sup>2</sup> Sec.
R459.062	1/16	125	7.0	0.000075
R459.125	1/8	125	1.70	0.00163
R459.250	1/4	125	0.665	0.0106
R459.375	3/8	125	0.395	0.0254
R459.500	1/2	125	0.280	0.0546
R459.750	3/4	125	0.175	0.155
R459.001	1	125	0.125	0.281
R459.01.5	1 1/2	125	0.0800	0.650
R459.002	2	125	0.0468	0.421
R459.02.5	2 1/2	125	0.0350	0.721
R459.003	3	125	0.0290	1.23
R459.03.5	3 1/2	125	0.0240	1.65
R459.004	4	125	0.0200	2.35
R459.005	5	125	0.0155	3.90

