

# Surface Mount Fuses

## Subminiature Surface Mount

### PICO® SMF 459 and 460 Series Fuses

#### 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).

**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: 100% Tin Plated Copper(459 Series)  
100% Tin Plated Copper(460 Series)

**Solderability:** MIL-STD-202, Method 208.

**PACKAGING SPECIFICATIONS:** 12mm Tape and Reel per EIA-RS481-1 (IEC 286, part 3); 500 per reel, add packaging suffix, UR.



### PICO® SMF

Very Fast-Acting Type Fuse 459 Series



#### 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>

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

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

#### 459 SERIES INTERRUPTING RATINGS:

50 amperes at 125 VAC.

300 amperes at 125 VDC.

#### Soldering Parameters:

Wave Solder — 260°C, 10 seconds maximum

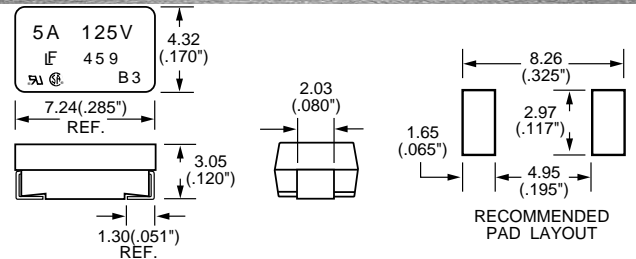
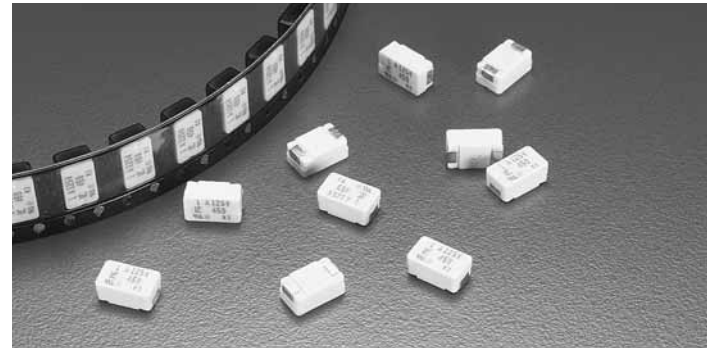
Reflow Solder — 260°C, 30 seconds maximum

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

**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.
0459.062	1/16	125	7.0	0.000075
0459.125	1/8	125	1.70	0.00163
0459.250	1/4	125	0.665	0.0106
0459.375	3/8	125	0.395	0.0254
0459.500	1/2	125	0.280	0.0546
0459.750	3/4	125	0.175	0.155
0459 001	1	125	0.125	0.281
0459 01.5	1 1/2	125	0.0800	0.650
0459 002	2	125	0.0468	0.421
0459 02.5	2 1/2	125	0.0350	0.721
0459 003	3	125	0.0290	1.23
0459 03.5	3 1/2	125	0.0240	1.65
0459 004	4	125	0.0200	2.35
0459 005	5	125	0.0155	3.90



### PICO® SMF

Slo-Blo® Type Fuse 460 Series



#### ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Opening Time
100%	4 hours, <b>Minimum</b>
200%	1 second, <b>Min.</b> ; 120 seconds, <b>Max.</b>
300%	0.2 second, <b>Min.</b> ; 3 seconds, <b>Max.</b>
800%	0.02 second, <b>Min.</b> ; 0.1 second, <b>Max.</b>

**460 SERIES AGENCY APPROVALS:** Recognized under the Components Program of Underwriters Laboratories and Certified by CSA. Approved by METI from 1 through 5 amperes.

#### 460 SERIES INTERRUPTING RATINGS:

50 amperes at 125 VAC.

50 amperes at 125 VDC.

#### Soldering Parameters:

Wave Solder — 260°C, 3 seconds maximum

Reflow Solder — 230°C, 30 seconds maximum

**Resistance to Soldering Heat:** MIL-STD-202, Method 210 (3 sec. at 260°C)

#### ORDERING INFORMATION:

Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms	Nominal Melting I <sup>2</sup> t A <sup>2</sup> Sec.
0460.500	1/2	125	1.19	0.210
0460.750	3/4	125	0.497	0.760
0460 001	1	125	0.280	2.01
0460 01.5	1 1/2	125	0.116	3.94
0460 002	2	125	0.071	7.60
0460 02.5	2 1/2	125	0.052	13.0
0460 003	3	125	0.038	21.0
0460 03.5	3 1/2	125	0.024	26.8
0460 004	4	125	0.0194	35.0
0460 005	5	125	0.0133	54.8