

Surface Mount Fuses

Subminiature Surface Mount

PICO® SMF 459 and 460 Series Fuses

• For newer designs the NANO® fuse is recommended.

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).

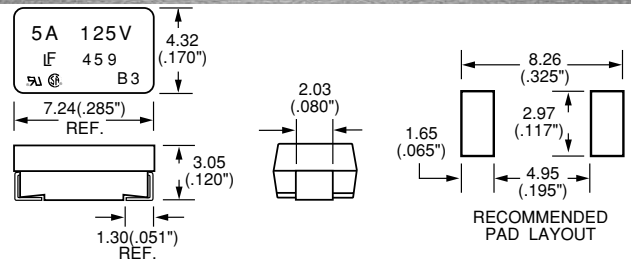
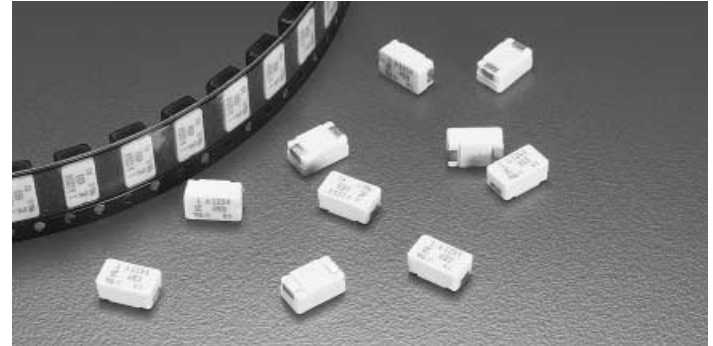
Moisture Resistance: MIL-STD-202, Method 106, High Humidity (90-98 RH), Heat (65°).

PHYSICAL SPECIFICATIONS:

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

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, Minimum
200%	1 second, Maximum
300%	0.1 second, Maximum

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 ² t A ² 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

PICO® SMF



Slo-Blo® Type Fuse 460 Series

ELECTRICAL CHARACTERISTICS:

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

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 ² t A ² Sec.
R460.500	1/2	125	1.19	0.210
R460.750	3/4	125	0.497	0.760
R460.001	1	125	0.280	2.01
R460.01.5	1 1/2	125	0.116	3.94
R460.002	2	125	0.071	7.60
R460.02.5	2 1/2	125	0.052	13.0
R460.003	3	125	0.038	21.0
R460.03.5	3 1/2	125	0.024	26.8
R460.004	4	125	0.0194	35.0
R460.005	5	125	0.0133	54.8