

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, 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

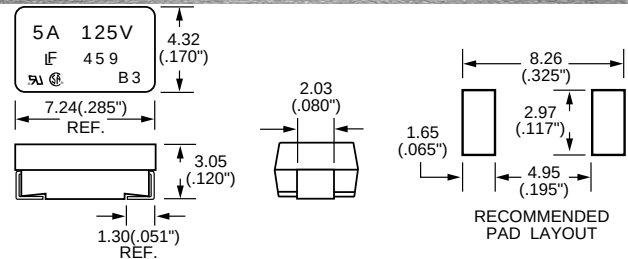
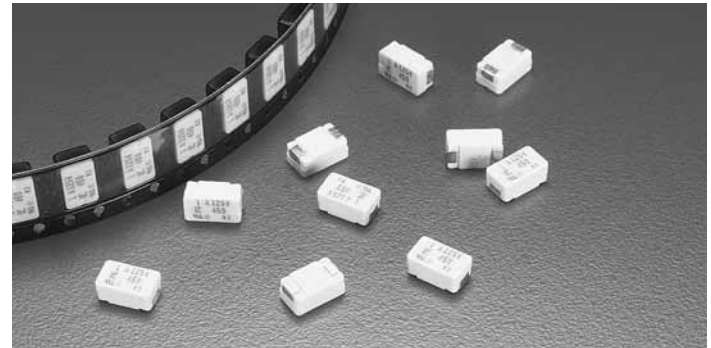
Reflow Solder — 260°C, 30 seconds maximum

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.
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	1½	125	0.0800	0.650
0459 002	2	125	0.0468	0.421
0459 02.5	2½	125	0.0350	0.721
0459 003	3	125	0.0290	1.23
0459 03.5	3½	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, 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.
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	1½	125	0.116	3.94
0460 002	2	125	0.071	7.60
0460 02.5	2½	125	0.052	13.0
0460 003	3	125	0.038	21.0
0460 03.5	3½	125	0.024	26.8
0460 004	4	125	0.0194	35.0
0460 005	5	125	0.0133	54.8

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Other Threats

Short Circuit/Current Overload



Part: **R460005**

Series: [460 Series - PICO® SMF Slo-Blo® Subminiature Surface Mount Fuse](#)

Technology:: Surface Mount (SMT)

PARAMETERS		
Package Type	Pkg Type	
Mount Method	Mount	Surface Mount
Peak Pulse Current - 10x1000µs	I _{PP} 10x1000µs (A)	0
Peak Pulse Current - 10x160µs	I _{PP} 10x160µs (A)	0
Peak Pulse Current - 10x560µs	I _{PP} 10x560µs (A)	0
Peak Pulse Current - 2x10µs	I _{pppp} 2x10µs (A)	0
	Mount2-NA	
Fuse Opening Characteristic	Opening	Slo-Blo?
Lead-Free	Pb Free	N
Package Size / Form Factor	Size	Subminiature
Current Rating	Amp Rating (A)	5.0000
Voltage Rating	Voltage Rating (V)	135
Nominal Cold Resistance	Resistance (Ohms)	0.0133
Norminal Melting I ² t	I ² t (A ² Sec)	54.8000
Certifications	Cert	
Interrupt Ratings	IR	50A @ 125V 50A @ 125V
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Series Datasheets



459_460 Series Data Sheet

459_460.pdf (77 K)

Last Updated: May 19, 2005