

# Axial Lead and Cartridge Fuses

## Subminiature

### RoHS PICO® II Very Fast-Acting Fuse 251/253

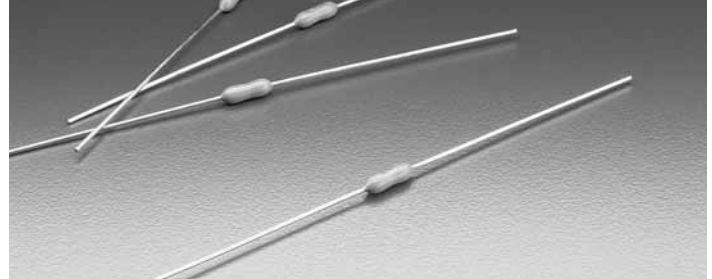


The PICO® II very fast-acting fuse is designed to meet an extensive array of performance characteristics in a space-saving subminiature package.

- **RoHS Compliant** version now available, use ordering suffix 'L' (see example on data sheet).

#### ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Ampere Rating	Opening Time
100%	1/16–15	4 hours, <b>Minimum</b>
200%	1/16–7	1 second, <b>Maximum</b>
	10	3 seconds, <b>Maximum</b>
	12–15	10 seconds, <b>Maximum</b>



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

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

**REFERENCE TO MIL SPEC:** Available in FM10 on QPL for MIL-PRF-23419. To order, change 251 to 253 as shown below.

#### INTERRUPTING RATINGS:

300 amperes at rated voltage VDC.

50 amperes at rated voltage VAC.

#### 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); Method 204, Test Condition C (55–2000 Hz at 10 G's Peak).

**Moisture Resistance:** MIL-STD-202, Method 106.

#### PHYSICAL SPECIFICATIONS:

**Materials:** Encapsulated, Epoxy-Coated Body; Solder Coated Copper Wire Leads. RoHS Compliant Product: Pure Tin coated copper wire leads.

#### Flammability Rating:

UL 94V0

#### Soldering Parameters:

Wave Solder — 260°C, 10 seconds maximum.

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

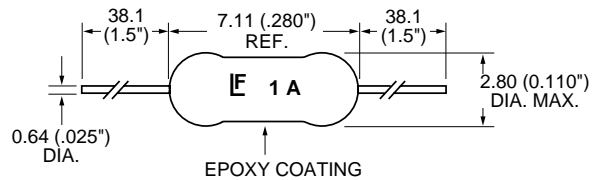
**Lead Pull Force:** MIL-STD-202, Method 211, Test Condition A (will withstand a 7 lb. axial pull test).

#### PATENTED

#### ORDERING INFORMATION:

Std. Type Catalog Number	Mil. Type Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms	Nominal Melting I <sup>2</sup> t A <sup>2</sup> Sec.
0251.062	0253.062	1/16	125	7.0	0.000113
0251.125	0253.125	1/8	125	1.70	0.00174
0251.250	0253.250	1/4	125	0.665	0.0116
0251.375	0253.375	3/8	125	0.395	0.0296
0251.500	0253.500	1/2	125	0.280	0.0598
0251.750	0253.750	3/4	125	0.175	0.153
0251.001	0253.001	1	125	0.128	0.256
0251.1.25		1 1/4	125	0.100	0.390
0251.01.5	0253.01.5	1 1/2	125	0.0823	0.587
0251.002	0253.002	2	125	0.0473	0.405
0251.02.5		2 1/2	125	0.0360	0.721
0251.003	0253.003	3	125	0.0290	1.19
0251.03.5		3 1/2	125	0.0240	1.58
0251.004	0253.004	4	125	0.0204	2.45
0251.005	0253.005	5	125	0.0155	4.14
0251.007	0253.007	7	125	0.0105	10.4
0251.010	0253.010	10	125	0.00705	25.5
0251.012		12	32	0.0055	45.2
0251.015	0253.015	15	32	0.00446	68.8

Note: Higher Ampere Ratings Available. Contact Technical Assistance for Details



**NOTE:** .025" diameter for 1/16–10A, .032" diameter for 12–15A.

**PACKAGING SPECIFICATIONS:** Tape and Reel per EIA-296; T1: 2.062" (52.4mm) taped spacing; 5,000 per reel.

**Options:** For RoHS Compliant devices add the letter 'L' to end of packaging suffix. Example: R251001.NRT1L (RoHS Compliant 1A, 5,000 per reel).

#### Average Time Current Curves

