

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, Minimum
200%	1/16–7	1 second, Maximum
	10	3 seconds, Maximum
	12–15	10 seconds, Maximum

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.

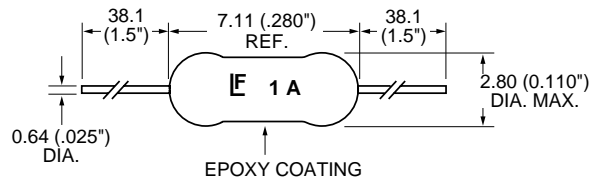
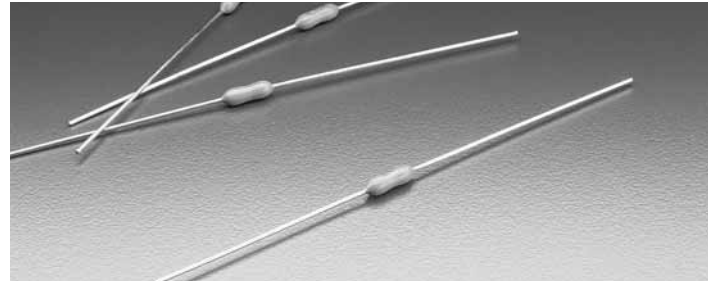
Lead Pull Force: MIL-STD-202, Method 211, Test Condition A (will withstand a 7 lb. axial pull test).

PATENTED

ORDERING INFORMATION:

Std. Type Catalog Number	Mil. Type Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms	Nominal Melting I ² t A ² 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

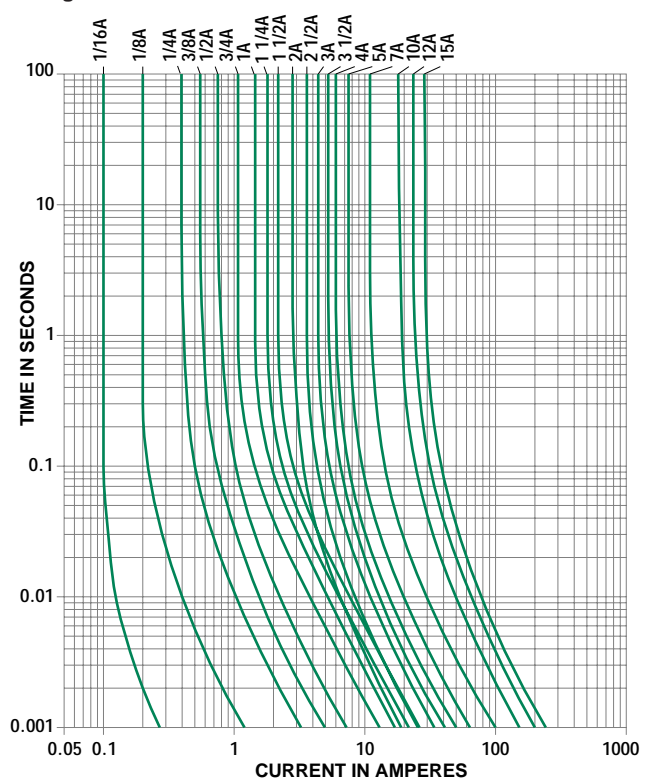


NOTE: .025" diameter for 1/16–10A, .032" diameter for 12–15A.

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: 0251001.NRT1L (RoHS Compliant 1A, 5,000 per reel).

Average Time Current Curves



Mouser Electronics

Authorized Distributor

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Littelfuse:

[R251.375T1](#) [R251002L](#) [R251003T1](#) [0251012.MXL](#) [025101.6MAT1L](#) [025101.6NRT1L](#) [0251.750MXL](#)
[0251015.MXL](#) [R251.750L](#) [0251004.MAT1L](#) [0251.125MXL](#) [0251002.MRT1L](#) [0251010.NRT1L](#) [025103.5NRT1L](#)
[0251.750NRT1L](#) [0251007.NRT1L](#) [025103.5MRT1L](#) [02511.25NRT1L](#) [0251001.MRT1L](#) [0251.500MRT1L](#)
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[0251.630MRT1L](#) [0251.750MRT1L](#) [025102.5MAT1L](#) [0251010.MRT1L](#) [0251.250MXL](#) [025101.5MRT1L](#)
[0251010.MAT1L](#) [0251015.MRT1L](#) [025102.5NRT1L](#) [0251.125MAT1L](#) [0251.630NRT1L](#) [0251003.MAT1L](#)
[0251007.MAT1L](#) [025101.5MXL](#) [0251.500MXL](#) [0253.500M](#) [0251.125NRT1L](#) [0253.062M](#) [0253010.M](#) [0253.375M](#)
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[0251010.MXL](#) [0251.375MXL](#) [0251003.MRT1L](#) [0251.250MAT1L](#) [0251.630MXL](#) [0251.250MRT1L](#) [0251.062NRT1L](#)
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