

AXIAL LEAD AND CARTRIDGE FUSES

SUBMINIATURE

PICO® II Very Fast-Acting Type Fuse



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

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 MITI from 1 through 5 amperes.

AGENCY FILE NUMBERS: UL E10480, CSA LR 29862.

REFERENCE TO MIL SPEC: Available in Military QPL type FM10, conforming to MIL-PRF-23419. To order, change 251 to 253 as shown below.

INTERRUPTING RATINGS:

300 amperes at 125 VDC.
50 amperes at 125 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.

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).

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

Option: Radial Lead Version; 0.4" lead spacing; to order, change 251 to 252.

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. |
|--------------------------|--------------------------|---------------|----------------|------------------------------|--|
| R251.062 | R253.062 | 1/16 | 125 | 7.0 | 0.000113 |
| R251.125 | R253.125 | 1/8 | 125 | 1.70 | 0.00174 |
| R251.250 | R253.250 | 1/4 | 125 | 0.665 | 0.0116 |
| R251.375 | R253.375 | 3/8 | 125 | 0.395 | 0.0296 |
| R251.500 | R253.500 | 1/2 | 125 | 0.280 | 0.0598 |
| R251.750 | R253.750 | 3/4 | 125 | 0.175 | 0.153 |
| R251.001 | R253.001 | 1 | 125 | 0.128 | 0.256 |
| R251.01.5 | R253.01.5 | 1 1/2 | 125 | 0.0823 | 0.587 |
| R251.002 | R253.002 | 2 | 125 | 0.0473 | 0.405 |
| R251.02.5 | | 2 1/2 | 125 | 0.0360 | 0.721 |
| R251.003 | R253.003 | 3 | 125 | 0.0290 | 1.19 |
| R251.03.5 | | 3 1/2 | 125 | 0.0240 | 1.58 |
| R251.004 | R253.004 | 4 | 125 | 0.0204 | 2.45 |
| R251.005 | R253.005 | 5 | 125 | 0.0155 | 4.14 |
| R251.007 | R253.007 | 7 | 125 | 0.0105 | 10.4 |
| R251.010 | R253.010 | 10 | 125 | 0.00705 | 25.5 |
| R251.012 | | 12 | 32 | 0.0055 | 45.2 |
| R251.015 | R253.015 | 15 | 32 | 0.00446 | 68.8 |

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

