

RoHS HF 472 Series, PICO® II, Time-Lag Fuse



Description

The 472 Series PICO® II, 125V rated time-Lag fuse is designed for applications that require moderate in-rush withstand and is in a space-saving subminiature package.

Features

- Moderate in-rush withstand
- Small size
- Wide range of current ratings available (500mA to 5A)
- RoHS compliant
- Halogen-free available
- Wide operating temperature range
- Low temperature de-rating

Agency Approvals

| Agency | Agency File Number | Ampere Range |
|---|--------------------|--------------|
|  | E10480 | 500mA - 5A |


Applications

- Flat-panel display TV
- Lighting
- Game Console
- Power Supply
- Audio/Video Equipment

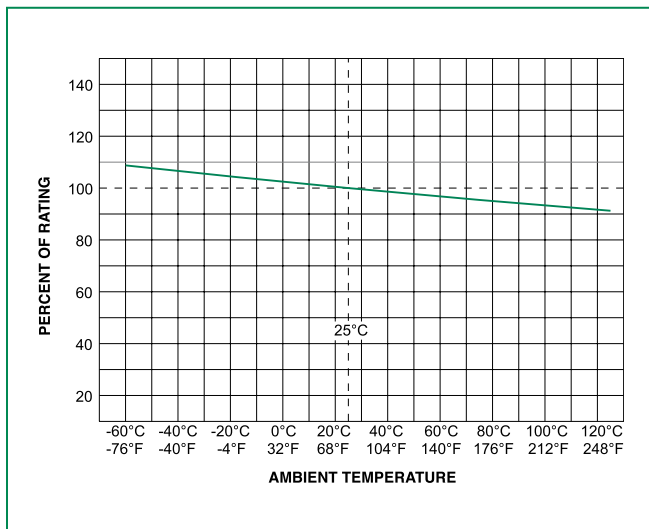
Electrical Characteristics

| % of Ampere Rating | Opening Time |
|--------------------|--------------------------|
| 100% | 4 Hours, Min. |
| 200% | 120 Seconds, Max. |

Electrical Characteristics

| Ampere Rating (A) | Amp Code | Max Voltage Rating (V) | Interrupting Rating | Nominal Cold Resistance (Ohms) | Nominal Melting I ² t (A ² sec) | Agency Approvals  |
|-------------------|----------|------------------------|-------------------------------|--------------------------------|---|--|
| .500 | .500 | 125 | 50 amperes at 125 VAC and VDC | 0.174 | 0.1927 | x |
| 1.00 | 001. | 125 | | 0.078 | 0.9384 | x |
| 1.50 | 01.5 | 125 | | 0.039 | 2.4081 | x |
| 2.00 | 002. | 125 | | 0.027 | 4.2363 | x |
| 2.50 | 02.5 | 125 | | 0.0209 | 7.0838 | x |
| 3.00 | 003. | 125 | | 0.0187 | 9.3600 | x |
| 5.00 | 005. | 125 | | 0.0084 | 45.9000 | x |

Temperature Derating Curve



Note:

- Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Soldering Parameters

Recommended Process Parameters:

| Wave Parameter | Lead-Free Recommendation |
|---|-----------------------------------|
| Preheat: (Depends on Flux Activation Temperature) | (Typical Industry Recommendation) |
| Temperature Minimum: | 100° C |
| Temperature Maximum: | 150° C |
| Preheat Time: | 60-180 seconds |
| Solder Pot Temperature: | 260° C Maximum |
| Solder Dwell Time: | 2-5 seconds |

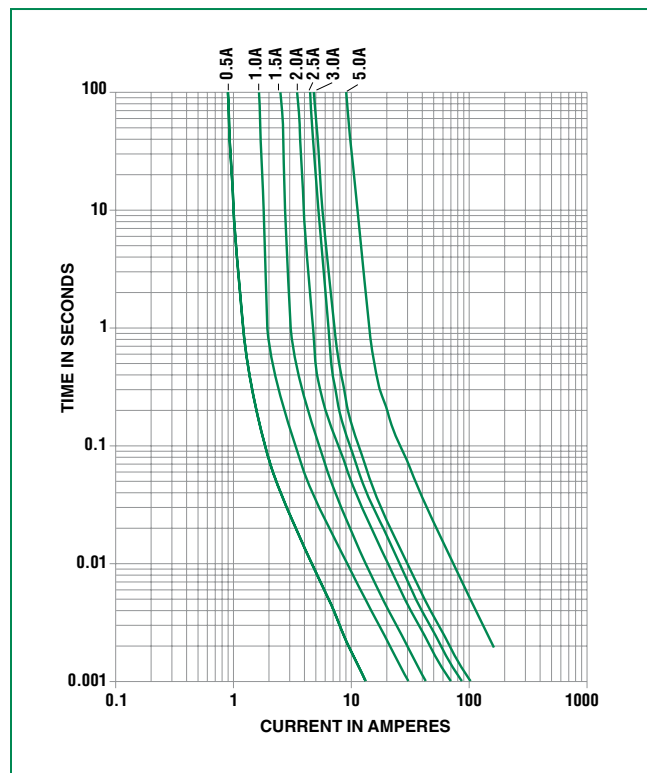
Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350° C +/- 5° C

Heating Time: 5 seconds max.

Note: These devices are not recommended for IR or Convection Reflow process.

Average Time Current Curves

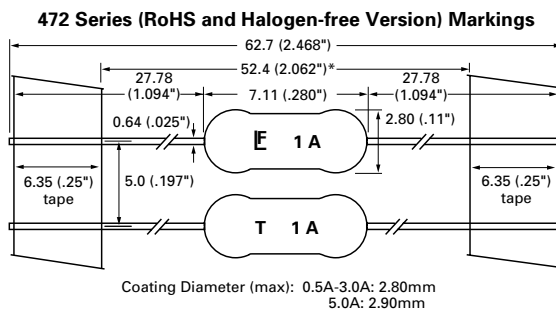
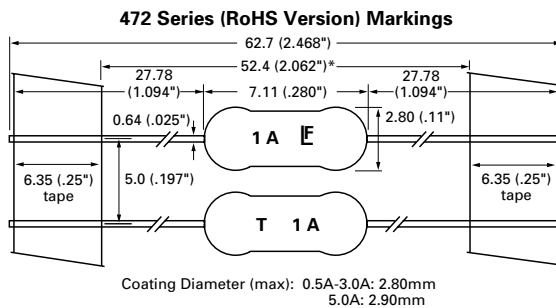


Product Characteristics

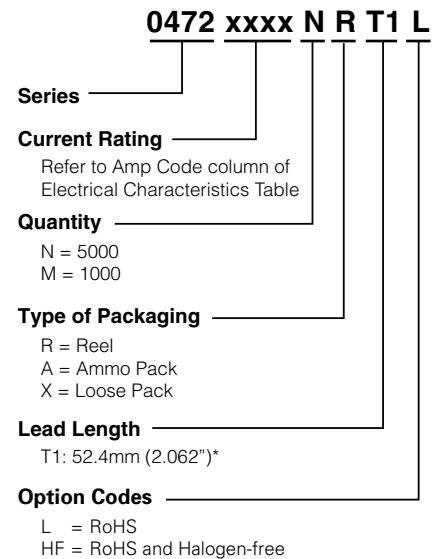
| | |
|------------------------|--|
| Material | Body: Ceramic Leads: Tin-coated Copper Encapsulated: Epoxy-Coated Body |
| Product Marking | Body: Brand Logo, Current Rating, T (time Lag fuse) |
| Solderability | MIL-STD-202, Method 208 |
| Lead Pull Force | MIL-STD-202, Method 211, Test Condition A (will Withstand a 7lbs. Axial pull test) |

| | |
|------------------------------|--|
| Operating Temperature | -55°C to +125°C with proper de-rating |
| Thermal 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) |

Dimensions



Part Numbering System



Packaging

| Packaging Option | Packaging Specification | Quantity | Quantity & Packaging Code |
|---------------------------------------|-------------------------|----------|--|
| *T1: 52.4mm (2.062") Tape and Reel | EIA 296 | | Refer to the tables in Part Numbering System above |

Notes: * T1 dimension is defined as the length of the component between the two tapes. The full component length is 62.7mm (2.468").