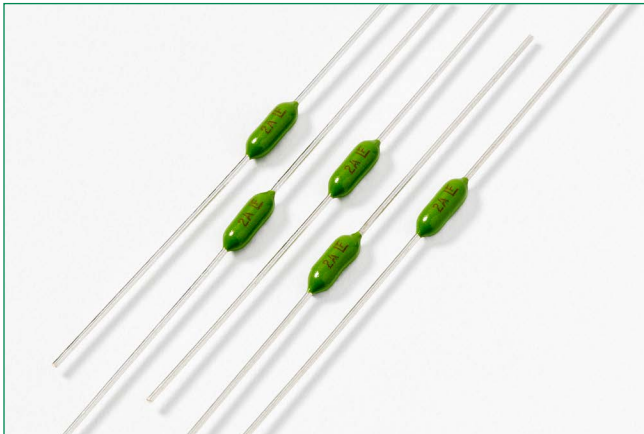


# 472 Series

## PICO® II Time-Lag Fuse



### Description

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

### Features & Benefits

- Moderate in-rush withstand
- Small size
- Wide range of current ratings available (0.50A to 5A)
- RoHS compliant and Halogen-free
- Wide operating temperature range
- Low temperature derating

### Applications

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

### Additional Information



Resources



Accessories



Samples

### Electrical Characteristics

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

### Agency Approvals

| Agency | Agency File Number | Ampere Range |
|--------|--------------------|--------------|
|        | E10480             | 0.50A - 5A   |
|        | NA                 | 0.50A - 5A   |
|        | NA                 | 0.50A - 5A   |

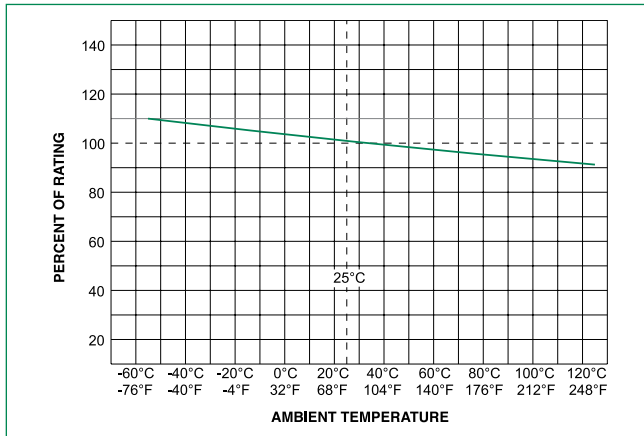
### Electrical Characteristics

| Ampere Rating (A) | Amp Code | Max Voltage Rating (V) | Interrupting Rating | Nominal Cold Resistance (Ohms) | Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec) | Agency Approvals |   |   |
|-------------------|----------|------------------------|---------------------|--------------------------------|---|------------------|---|---|
|                   |          |                        |                     |                                |   |                  |   |   |
| .500              | .500     | 125                    | 50A@125VAC/DC       | 0.1745                         | 0.1927  | x                | x | x |
| 1.00              | 001.     | 125                    |                     | 0.0785                         | 0.9384  | x                | x | x |
| 1.50              | 01.5     | 125                    |                     | 0.0392                         | 2.4081  | x                | x | x |
| 2.00              | 002.     | 125                    |                     | 0.0271                         | 4.2363  | x                | x | x |
| 2.50              | 02.5     | 125                    |                     | 0.0209                         | 7.0838  | x                | x | x |
| 3.00              | 003.     | 125                    |                     | 0.0187                         | 9.3600  | x                | x | x |
| 5.00              | 005.     | 125                    |                     | 0.0084                         | 45.9000   | x                | x | x |

# 472 Series

## PICO® II Time-Lag Fuse

**Temperature Re-rating Curve**



**Note:** Re-rating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

### Soldering Parameters

Recommended Process Parameters:

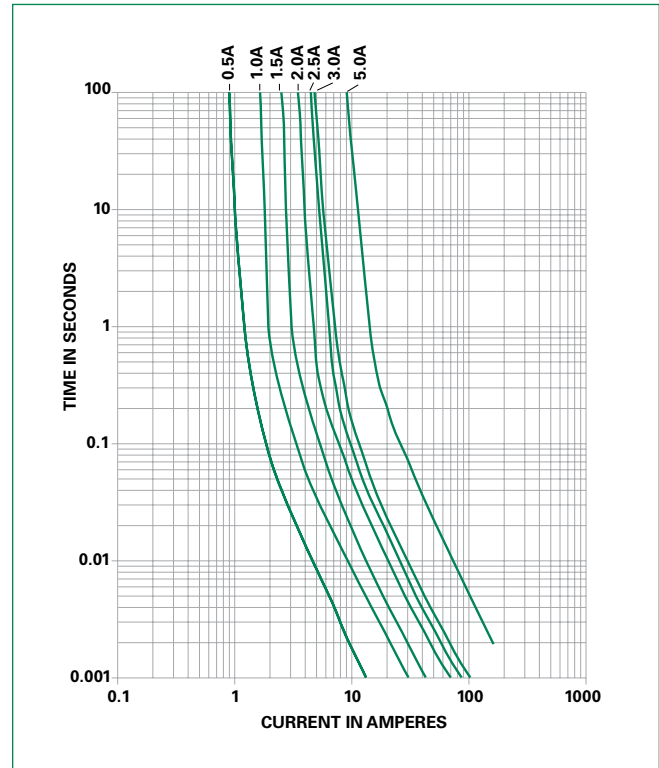
| Wave Parameter                                       | Lead-Free Recommendation          |
|--|-----------------------------------|
| Preheat:<br>(Depends on Flux Activation Temperature) | (Typical Industry Recommendation) |
| Temperature Minimum:                                 | 100°C                             |
| 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**



# 472 Series

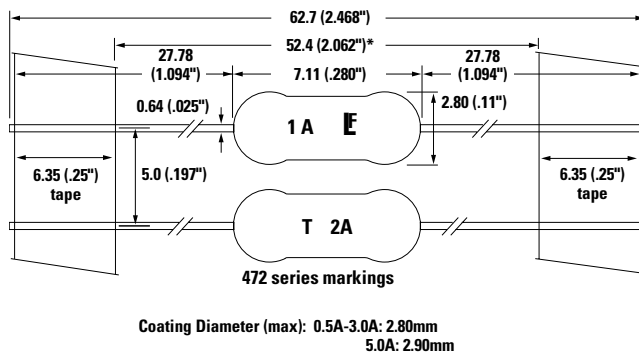
## PICO® II Time-Lag Fuse

### Product Characteristics

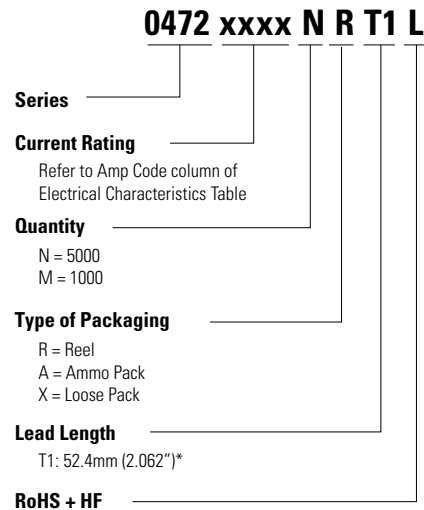
|                        |  |
|------------------------|--|
| <b>Material</b>        | Body: Ceramic<br>Leads: Tin-coated Copper<br>Encapsulated: Epoxy-Coated Body       |
| <b>Product Marking</b> | Body: Brand Logo, Current Rating, T (time-lag fuse)                                |
| <b>Solderability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

|                              |  |
|------------------------------|--|
| <b>Operating Temperature</b> | -55°C to +125°C with proper de-rating  |
| <b>Thermal Shock</b>         | MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds)                  |
| <b>Vibration</b>             | 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")<br>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").