

**RoHS HF 471 Series, PICO® II, Time-Lag Fuse**

**Description**

The 471 Series PICO® II 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




**Applications**

- Flat-panel display TV
- LCD monitor
- Lighting system
- Medical equipment
- Industrial equipment




**Electrical Characteristics**

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

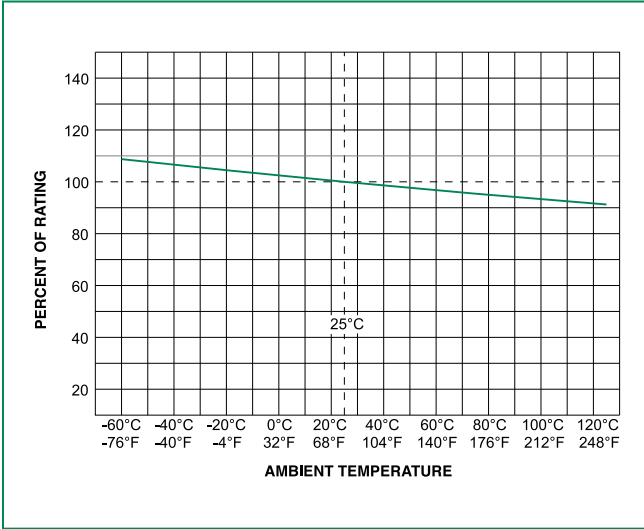
**Agency Approvals**

Agency	Agency File Number	Ampere Range
	E10480	500mA - 5A
	LR 29862	500mA - 2.5A
	JET 1896-31007-1001	1A - 5A

**Electrical Characteristics**

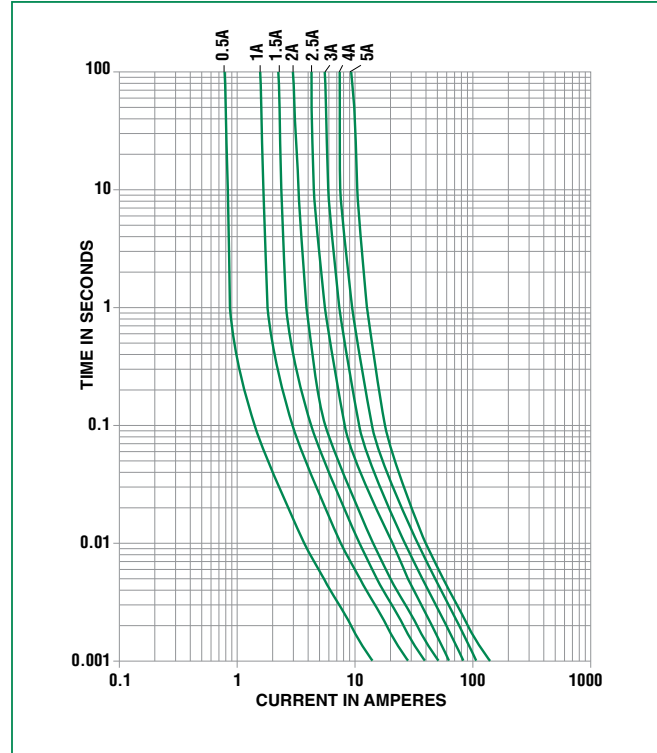
Ampere Rating (A)	Amp Code	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec)	Nom Voltage Drop (mV)	Agency Approvals		
									
.500	.500	125	50 amperes at 125 VAC and VDC	0.189	0.159		X	X	
1.00	001.	125		0.085	0.722		X	X	X
1.50	01.5	125		0.054	1.610		X	X	X
2.00	002.	125		0.039	2.500		X	X	X
2.50	02.5	125		0.030	4.390		X	X	X
3.00	003.	125		0.023	6.960		X		X
4.00	004.	125		0.012	10.600		X		X
5.00	005.	125		0.008	15.400		X		X

**Temperature Derating Curve**



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

**Average Time Current Curves**



**Soldering Parameters**

**Recommended Process Parameters:**

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

**Recommended Hand-Solder Parameters:**

Solder Iron Temperature: 350° C +/- 5° C  
 Heating Time: 5 seconds max.

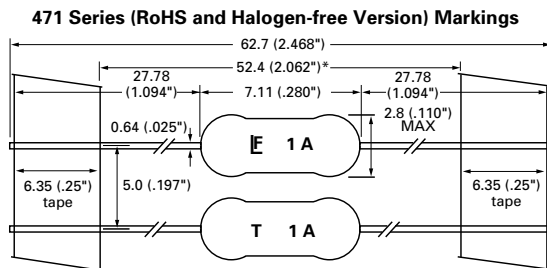
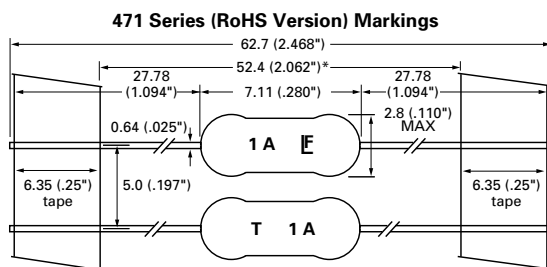
**Note: These devices are not recommended for IR or Convection Reflow process.**

### Product Characteristics

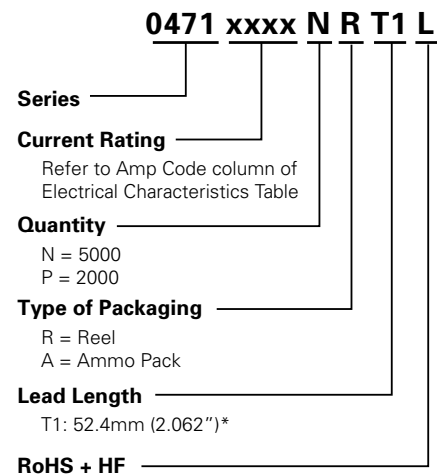
<b>Materials</b>	Encapsulated, Epoxy-Coated Body; Solder Coated Copper wire leads; RoHS compliant Product: Pure Tin-coated Copper wire leads
<b>Flammability Rating</b>	UL 94V-0
<b>Solderability</b>	MIL-STD-202, Method 208
<b>Lead Pull Force</b>	MIL-STD-202, Method 211, Test Condition A (will withstand a 7 lbs. axial pull test)

<b>Operating Temperature</b>	-55°C to +125°C
<b>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)
<b>Moisture Resistance</b>	MIL-STD-202, Method 106
<b>Resistance to Soldering Heat</b>	Withstands 60 seconds above 200°C and up to 260°C, maximum

### Dimensions



### Part Numbering System



### Packaging

Packaging Option	Packaging Specification	Quantity & Packaging Code
*T1: 52.4mm (2.062") Tape and Reel	EIA 296	Please refer to available quantities above in "Part Numbering System"

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