# **Cartridge and Axial Lead Fuses** PICO® II > Time Lag > 471 Series

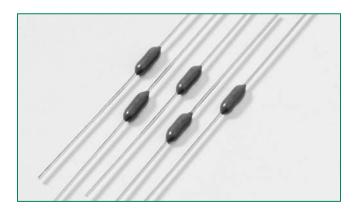


# 471 Series, PICO® II, Time-lag Fuse









### **Agency Approvals**

	Agency	Agency File Number	Ampere Range
	® <b>\$1</b> E10480		500mA - 5A
<b>⊕</b> ®		LR 29862	500mA - 2.5A
	JET 1896-31007		1A - 2.5A

## **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
- Wide operating temperature range
- Low temperature de-rating

## **Applications**

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

#### **Electrical Characteristics**

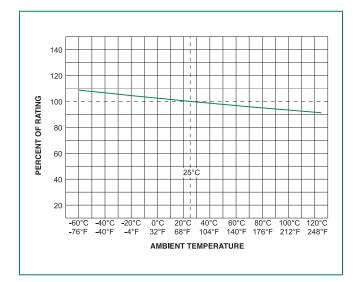
% of Ampere Rating	OpeningTime		
100%	4 Hours, <b>Min</b> .		
200%	120 Seconds, <b>Max</b> .		

# **Electrical Characteristics**

	Amp Code	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting l²t (A² sec)	Nom Voltage Drop (mV)	Agency Approvals		
Ampere Rating (A)							<b>.</b> 71	<b>®</b>	PSE
.500	.500	125	50 amperes at 125 VAC and VDC	0.189	0.159		Х	Х	
1.00	001.	125		0.085	0.722		х	Х	Х
1.50	01.5	125		0.054	1.610		Х	Х	Х
2.00	002.	125		0.039	2.500		х	X	Х
2.50	02.5	125		0.030	4.390		Х	Х	Х
3.00	003.	125		0.023	6.960		х		
4.00	004.	125		0.012	10.600		Х		
5.00	005.	125		0.008	15.400		Х		



# **Temperature Rerating Curve**



# **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:	280° C Maximum	
Solder DwellTime:	2-5 seconds	

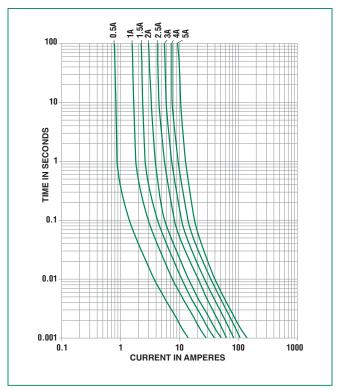
### **Recommended Hand-Solder Parameters:**

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**



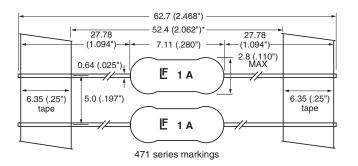
# Cartridge and Axial Lead Fuses PICO® II > Time Lag > 471 Series

#### **Product Characteristics**

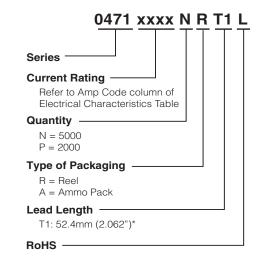
Materials	Encapsulated, Epoxy-Coated Body; Solder Coated Copper wire leads; RoHS compliant Product: Pure Tin-coated Copper wire leads			
Flammability Rating	UL 94V-0			
Solderability	MIL-STD-202, Method 208			
Lead Pull Force	MIL-STD-202, Method 211, Test Condition A (will withstand a 7 lbs. axial pull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

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	
Resistance to Soldering Heat	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").