

471 Series, PICO® II Time-Lag Fuse



Agency Approvals

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

Additional Information



Datasheet



Resources



Samples

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

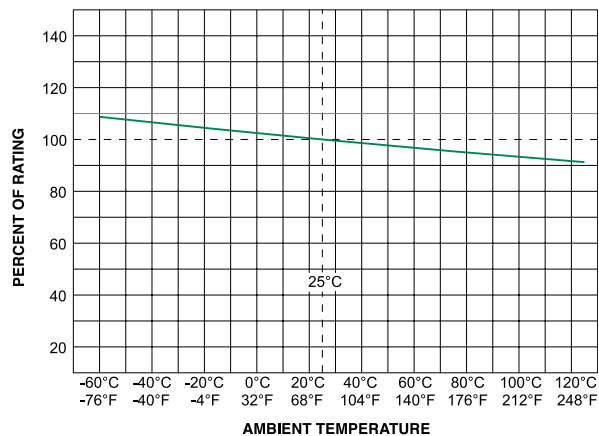
Electrical Characteristics

% of Ampere Rating	Opening Time
100%	4 Hours, 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	0.189	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
3.50	03.5	125		0.018	9.900	X		X
4.00	004.	125		0.012	10.600	X		X
5.00	005.	125		0.008	15.400	X		X

Temperature Rerating Curve



Note:

1. 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

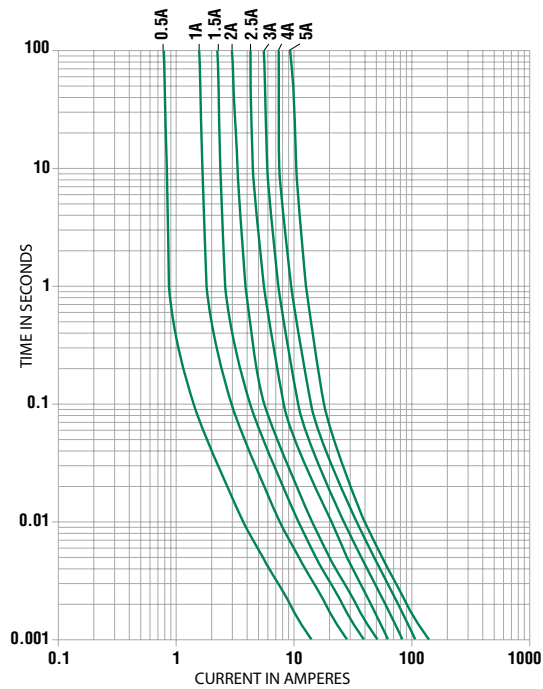
Recommended Hand-Solder Parameters:

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



Axial Lead & Cartridge Fuses

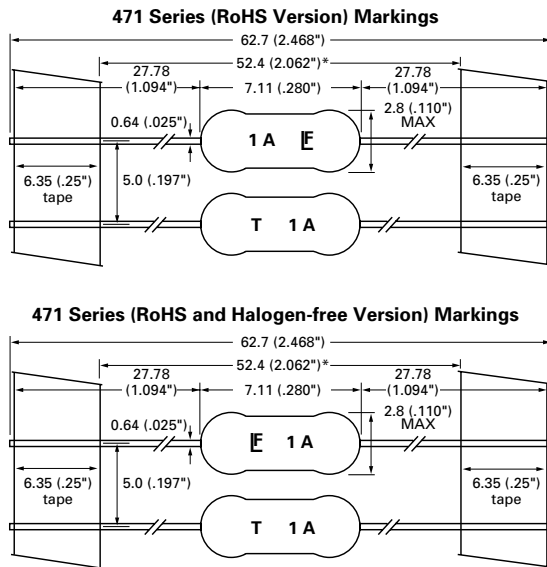
PICO® II > Time-Lag > 471 Series

Product Characteristics

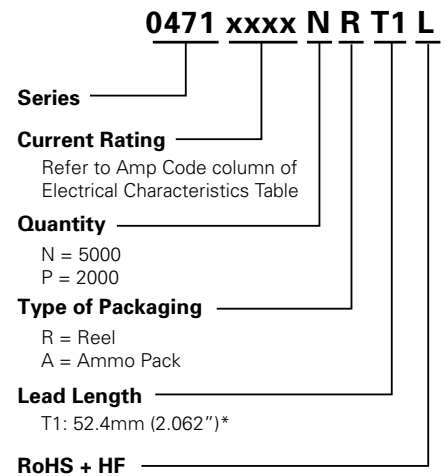
Materials	Encapsulated, Epoxy-Coated Body; Solder Coated Copper wire leads; RoHS compliant Product: Pure Tin-coated Copper wire leads
Flammability Rating	UL 94V-0
Solderability	MIL-STD-202, Method 208
Lead Pull Force	MIL-STD-202, Method 211, Test Condition A (will withstand a 7 lbs. axial pull test)

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").

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Littelfuse:

[0471.500MAT1L](#) [0471001.MAT1L](#) [0471004.MAT1L](#) [0471005.MAT1L](#) [047101.5MAT1L](#) [047102.5MAT1L](#)
[0471003.MAT1L](#) [047103.5MAT1L](#)