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 & Benefits

- Moderate in–rush withstand
- Small size
- Wide range of current ratings available (0.500A to 5A)
- RoHS compliant
- Halogen-free available
- Wide operating temperature range
- Low temperature de-rating

Additional Information

Resources | Accessories | Samples

Applications

- Flat–panel display TV
- LCD monitor
- Lighting systems
- Medical equipments
- Industrial equipments

Agency Approvals

Agency	Agency File Number	Ampere Range
	E10480	0.5A - 5A
	29862	0.5A - 5A
	NBK200416-JP1021	1A - 5A
	NA	0.5 - 5A

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 I²t (A² sec)	Agency Approvals			
.500	.500	125	50A@125VAC/DC	0.1890	0.159	-	X	-	X
1.00	001.	125		0.0851	0.722	X	X	X	X
1.50	01.5	125		0.0535	1.610	X	X	X	X
2.00	002.	125		0.0385	2.500	X	X	X	X
2.50	02.5	125		0.0300	4.390	X	X	X	X
3.00	003.	125		0.0231	6.960	X	X	X	X
3.50	03.5	125		0.0180	9.900	X	X	X	X
4.00	004.	125		0.0115	10.600	X	X	X	X
5.00	005.	125		0.0084	15.400	X	X	X	X

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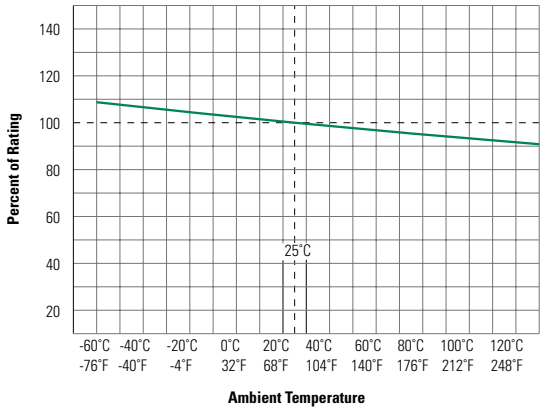
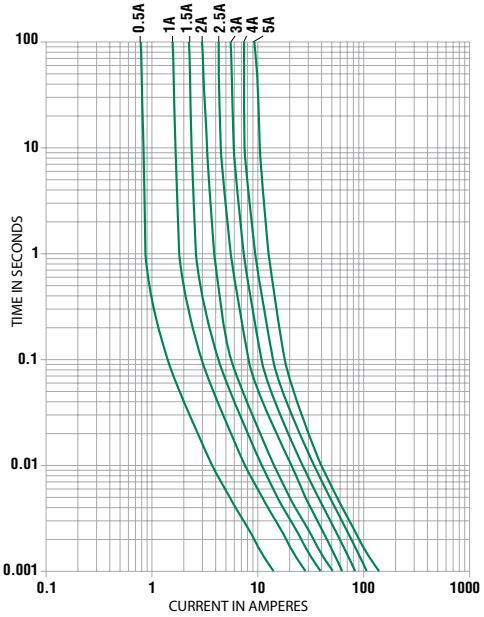
Temperature Re-rating Curve



Note: Rerating 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
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.

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 (Consider re-rating)
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

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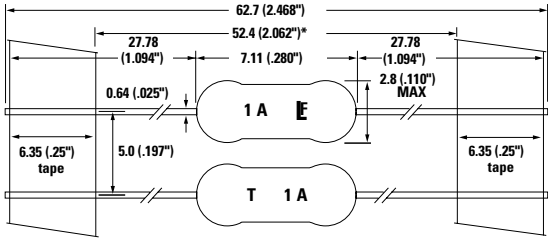
Dimensions

471 Series Markings



Part Numbering System

0471 xxxx N R T1 L

Series

Current Rating
Refer to Amp Code column of Electrical Characteristics Table

Quantity
N = 5000
P = 2000

Type of Packaging
R = Reel
A = Ammo Pack

Lead Length
T1: 52.4mm (2.062")*

Environmental Options
Blank = RoHS
L = RoHS + HF

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").

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