Axial Lead & Cartridge Fuses

PICO® II > Time-Lag Fuse > 471 Series

471 Series, PICO® II Time-Lag Fuse





Agency Approvals

Agency	Agency File Number	Ampere Range
7U	E10480	0.50A - 5A
(1)	29862	0.50A - 5A
⟨PS⟩ E	NBK200416-JP1021	1A - 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 (0.50A to 5A)
- Halogen-free and RoHScompliant
- Wide operating temperature range
- Recognized to UL/CSA/ NMX 248-1 and UL/CSA/ NMX 248-14
- Conforms to DENAN's Appendix 3

Applications

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

Additional Information



Datasheet



Resources



Samples

Electrical Characteristics

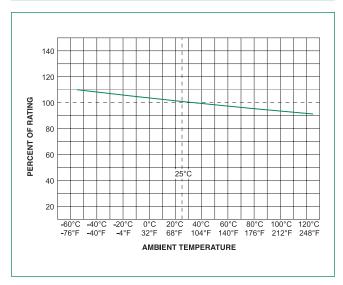
% of Ampere Rating	Opening Time	
100%	4 Hours, Min .	
200%	120 Seconds, Max .	

Electrical Characteristics

0	e Max Nominal Cold			Age	ency Appro	vals		
Ampere Rating (A)	Amp Code	Voltage Rating (V)	Interrupting Rating	Interrupting Posistance Nominal	Nominal Melting I²t (A² sec)	<i>71</i> 2	(PS
0.50	.500	125		0.1890	0.159	X	X	-
1.00	001.	125		0.0851	0.722	X	X	X
1.50	01.5	125		0.5350	1.610	X	X	X
2.00	002.	125		0.3850	2.500	X	X	X
2.50	02.5	125	50A@125VAC/DC	0.0300	4.390	X	X	X
3.00	003.	125		0.0231	6.960	X	X	X
3.50	03.5	125		0.0180	9.900	X	X	X
4.00	004.	125		0.1310	10.600	X	X	X
5.00	005.	125		0.0084	15.400	X	X	X



Temperature Re-rating Curve



Note:

Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Soldering Parameters

Recommended Process Parameters:

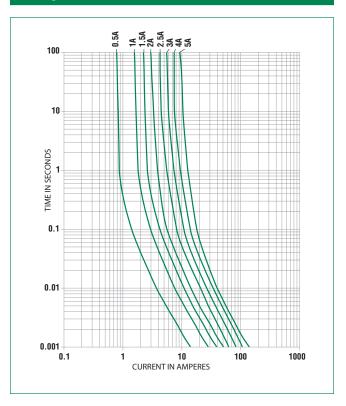
Wave Parameter	Lead-Free Recommendation	
Preheat: (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)	
Temperature Minimum:	100°C	
Temperature Maximum:	150°C	
Preheat Time:	60-180 seconds	
Solder Pot Temperature:	260°C Maximum	
Solder Dwell Time:	2-5 seconds	

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



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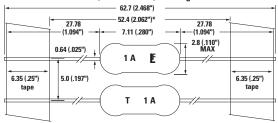
Product Characteristics

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)	

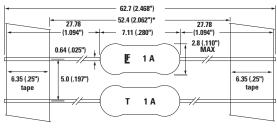
Operating Temperature	-55°C to +125°C (Consider re-rating)
Shock	MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds)
Vibration	MILSTD-202, Method 201 (10–55 Hz); Method 204, Test Condition C (55–2000 Hz at 10 G's Peak)
Moisture Resistance	MIL-STD-202, Method 106
Resistance to Soldering Heat	Withstands 60 seconds above 200°C and up to 260°C, maximum

Dimensions

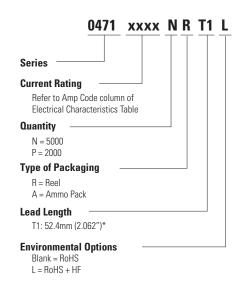
471 Series (RoHS Version) Markings



471 Series (RoHS and Halogen-free Version) Markings



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").