



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





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Applications

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

Agency Approvals

<i>7</i> .27	E10480	0.5A - 5A
® -	29862	0.5A - 5A
PS	NBK200416-JP1021	1A - 5A
UK CA	NA	0.5 - 5A

Electrical Characteristics

Opening Time		
4 Hours, Min.		
120 Seconds, Max .		

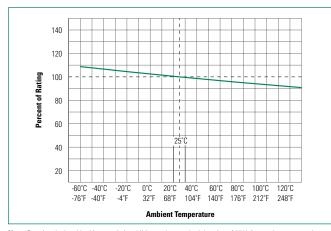
Electrical Characteristics

Ampere		Max Voltage		Nominal Cold Nominal Melting			Agency A	Approvals	
Rating(A)	Amp Code	Rating (V)	Interrupting Rating	Resistance (Ohms)	I ² t (A ² sec)	<i>21</i> 7.	⊕ .	⟨PS⟩	CA
.500	.500	125		0.1890	0.159	-	X	-	X
1.00	001.	125		0.0851	0.722	Χ	X	X	X
1.50	01.5	125		0.0535	1.610	Χ	X	X	Χ
2.00	002.	125		0.0385	2.500	Χ	X	X	Χ
2.50	02.5	125	50A@125VAC/DC	0.0300	4.390	X	X	Χ	Χ
3.00	003.	125		0.0231	6.960	Χ	X	X	X
3.50	03.5	125		0.0180	9.900	Χ	X	X	Χ
4.00	004.	125		0.0115	10.600	Χ	X	X	X
5.00	005.	125		0.0084	15.400	X	X	Χ	Χ



471 Series PICO® II Time-Lag Fuse

Temperature Re-rating Curve



 $\textbf{Note:} \ \text{Rerating depicted in this curve is in addition to the standard derating of 25\% for continuous operation.}$

Soldering Parameters

Recommended Process Parameters:

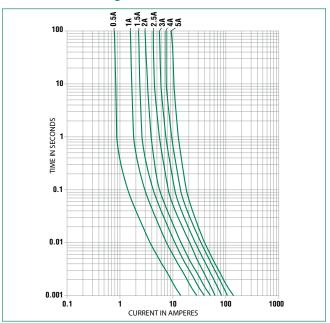
Wave Parameter	Lead-Free Recommendation		
Preheat: (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)		
Temperature Minimum:	100°C		
Temperature Maximum:	150°C		
Preheat Time:	60-180 seconds		
Solder Pot Temperature:	260°C Maximum		
Solder Dwell Time:	2-5 seconds		

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



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	MILSTD-202, Method 208
Lead Pull Force	MIL-STD-202, Method 211, Test Condition A (will withstand a 7 lbs. axial pull test)

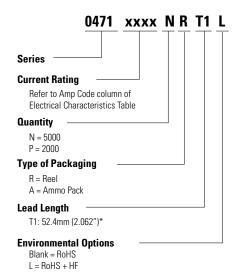
Operating Temperature	-55°C to +125°C (Consider re-rating)	
Shock	MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds)	
Vibration	MIL-STD-202, Method 201 (10–55 Hz); Method 204, Test Condition C (55–2000 Hz at 10 G's Peak)	
Moisture Resistance	MIL-STD-202, Method 106	
Resistance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



Dimensions

471 Series Markings 62.7 (2.468") 52.4 (2.062")* 27.78 - (1.094") 27.78 7.11 (.280") (1.094") 2.8 (.110") MAX 0.64 (.025" 1 A E 6.35 (.25") 5.0 (.197") 6.35 (.25") tape 1 A

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").