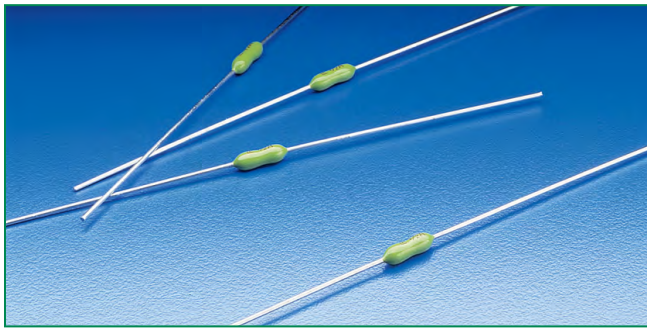


**491 Series, PICO® II, Very Fast-Acting Fuse**



**Description**

The PICO® II Very Fast-Acting Fuse is designed to meet an extensive array of performance characteristics in a space-saving subminiature package.

**Features**

- Very fast-acting
- Small size
- Wide current rating range (125mA - 10A)
- RoHS compliant
- Halogen-free available
- Wide operating temperature range
- Low temperature de-rating

**Applications**

Secondary protection for space constrained applications

- Flat-panel display TV
- LCD monitor
- LCD backlight inverter
- Office machines
- Power supply
- Audio/Video system
- Lighting system
- Medical equipment

**Agency Approvals**

Agency	Agency File Number	Ampere Range
	E 10480	125mA - 10A
	LR 29862	125mA - 10A
	JET 1896-31007-1001	1A - 5A

**Electrical Characteristics**

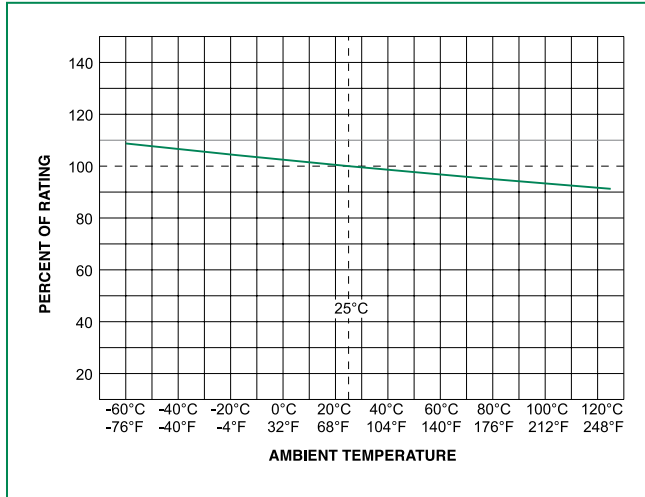
% of Ampere Rating	Ampere Rating	Opening Time
100%	1/8-10	4 Hours, <b>Min.</b>
300%	1/8-10	0.3 Seconds, <b>Max.</b>

**Electrical Characteristics**

Ampere Rating (A)	Amp Code	Ordering Number (Std.)	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Agency Approvals		
.125	0.125	0491.125	125	50A at 125Vac and Vdc	1.7000	x	x	
.200	0.200	0491.200	125		0.8950	x	x	
.250	0.250	0491.250	125		0.6650	x	x	
.315	0.315	0491.315	125		0.5000	x	x	
.400	0.400	0491.400	125		0.3230	x	x	
.500	0.500	0491.500	125		0.3020	x	x	
.630	0.630	0491.630	125		0.2050	x	x	
.750	0.750	0491.750	125		0.1750	x	x	
.800	0.800	0491.800	125		0.1480	x	x	
1.00	001.	0491 001.	125		0.1280	x	x	x
1.25	1.25	0491 1.25	125		0.1000	x	x	x
1.50	01.5	0491 01.5	125		0.0823	x	x	x
1.60	01.6	0491 01.6	125		0.0700	x	x	x
2.00	002.	0491 002.	125		0.0473	x	x	x
2.50	02.5	0491 02.5	125		0.0360	x	x	x
3.00	003.	0491 003.	125		0.0295	x	x	x
3.15	3.15	0491 3.15	125		0.0275	x	x	x
3.50	03.5	0491 03.5	125		0.0240	x	x	x
4.00	004.	0491 004.	125		0.0204	x	x	x
5.00	005.	0491 005.	125		0.0158	x	x	x
7.00	007.	0491 007.	86		0.0107	x	x	
10.00	010.	0491 010.	86	0.0072	x	x		

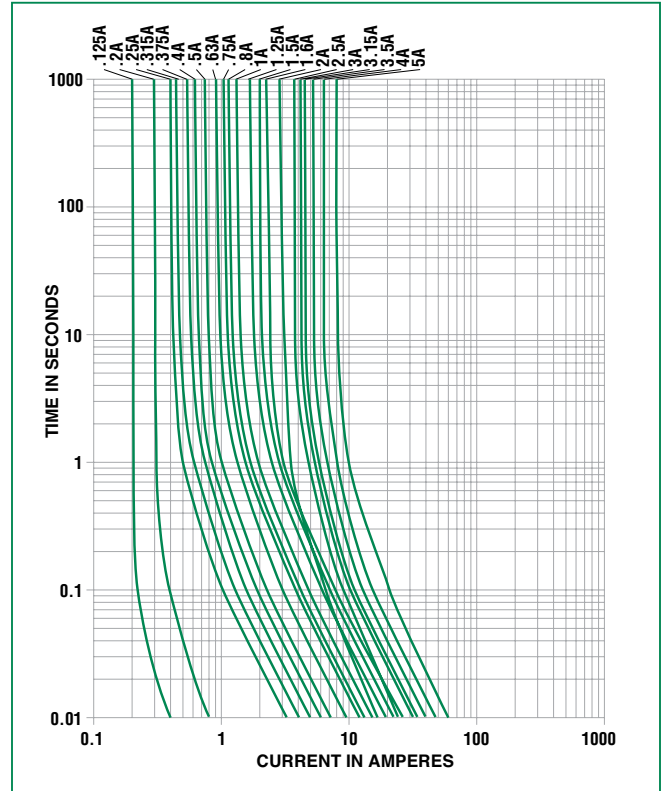
Note: Higher ampere ratings are available. Please contact Littelfuse Technical Support or your Littelfuse products representative for assistance.

### Temperature Derating Curve



Note:  
 1. Derating 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
<b>Preheat:</b> (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)
Temperature Minimum:	100° C
Temperature Maximum:	150° C
Preheat Time:	60-180 seconds
<b>Solder Pot Temperature:</b>	260° C Maximum
<b>Solder Dwell Time:</b>	2-5 seconds

#### Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350° C +/- 5° C  
 Heating Time: 5 seconds max.

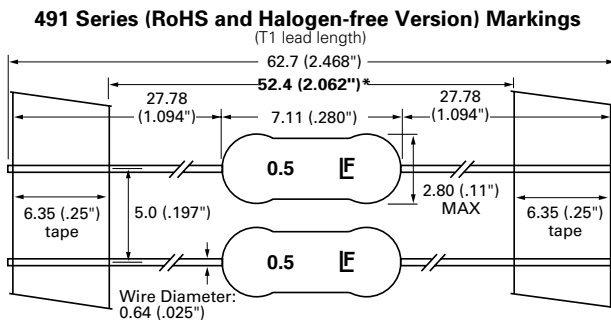
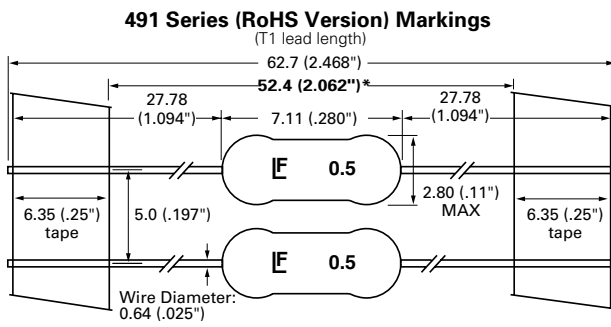
**Note: These devices are not recommended for IR or Convection Reflow process.**

**Product Characteristics**

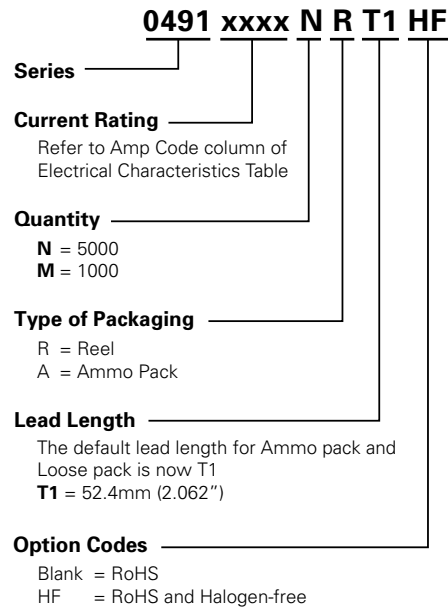
<b>Materials</b>	Encapsulated, Epoxy-Coated Body: Pure Tin-coated Copper wire leads
<b>Solderability</b>	MIL-STD-202, Method 208
<b>Lead Pull Force</b>	MIL-STD-202, Method 211, Test Condition A (will withstand a 7lbs. axial pull test)

<b>Operating Temperature</b>	-55°C to +125°C
<b>Shock</b>	MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds)
<b>Vibration</b>	MIL-STD-202, Method 201 (10-55 Hz); Method 204, Test Condition C (55-2000 Hz at 10 G's Peak)
<b>Moisture Resistance</b>	MIL-STD-202, Method 106
<b>Resistance to Soldering Heat</b>	Withstands 60 seconds above 200°C and up to 260°C, maximum
<b>Flammability Rating</b>	UL 94V-0

**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").