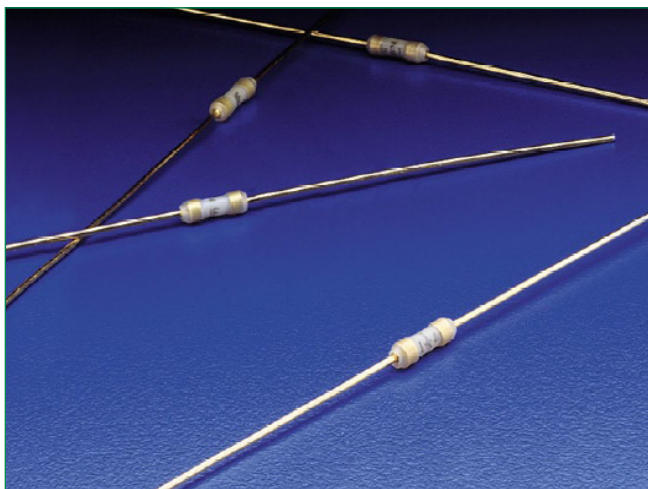


## 275 Series, PICO® Very Fast-Acting Fuse



### Agency Approvals

Agency	Agency File Number	Ampere Range
	E10480	20A - 30A

### Additional Information



Datasheet



Resources



Samples

### Description

The PICO® 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
- High current rating (20A- 30A)
- RoHS compliant
- Wide operating temperature range
- Low temperature derating

### Applications

- Power supply
- Networking equipment
- PC server
- Storage system

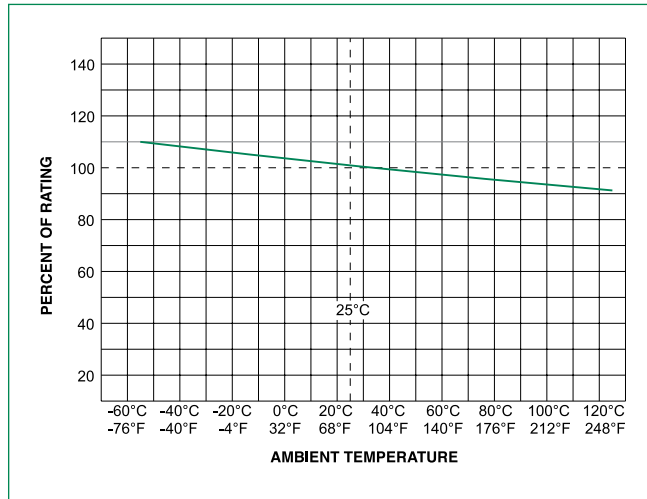
### Electrical Characteristics

% of Ampere Rating	Ampere Rating	Opening Time
100%	20A - 30A	4 Hours, Min.
200%	20A - 30A	10 Seconds, Max.

### Electrical Characteristics

Ampere Rating (A)	Amp Code	Ordering Number	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I²t (A² sec)	Agency Approvals 
20.0	020.	0275020.	32	300A@32VDC 100A@32VAC	0.0033	203	x
25.0	025.	0275025.	32		0.0024	288	x
30.0	030.	0275030.	32		0.0020	355	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:

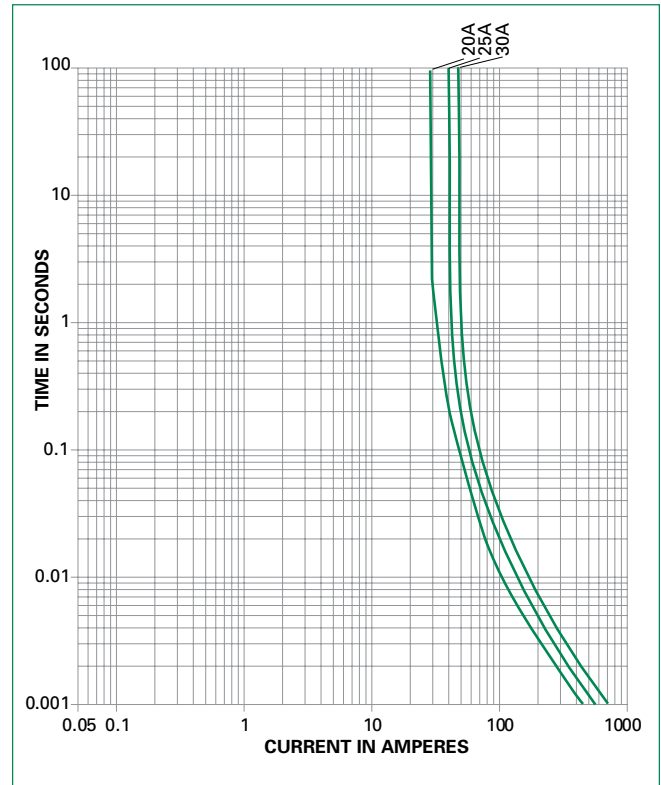
Wave Parameter	Lead-Free Recommendation
<b>Preheat:</b> (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)
<b>Temperature Minimum:</b>	100°C
<b>Temperature Maximum:</b>	150°C
<b>Preheat Time:</b>	60-180 seconds
<b>Solder Pot Temperature:</b>	260°C Maximum
<b>Solder Dwell Time: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

### Average Time Current Curves

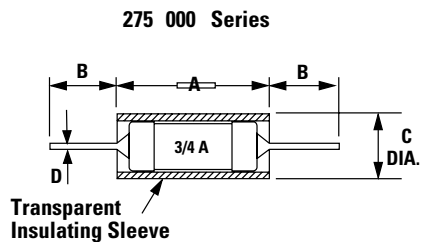


### Product Characteristics

<b>Materials</b>	Transparent Polyvinylidene Fluoride sleeve covered body, pure tin plated 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 5lbs. axial pull test)

<b>Operating Temperature</b>	-60°C to +125°C (Consider re-rating)
<b>Shock</b>	MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds) and per method 2028 (78G's peak for 11 milliseconds)
<b>Vibration</b>	MIL-STD-202, Method 201 (10-55 Hz); Method 204, Test Condition D (Vibrations of 10-2000 cps at 20 G's)
<b>Moisture Resistance</b>	MIL-STD-202, Method 106

### Dimensions



Amperage	Dimensions in mm (inches)			
	A	B	C	D
20 - 30	7.87 (.31")	27.78 (1.094")	3.38 (.133")	1.016 (.040")

### Part Numbering System

<b>0275 xxxx M R T1 L</b>	
<b>Series</b> 275	
<b>Current Rating</b> Refer to Amp Code column of Electrical Characteristics Table	
<b>Quantity</b> M = 1000 V = 5	
<b>Type of Packaging</b> R = Reel X = Loose Pack	
<b>Lead Length</b> T1 = 52.4mm (2.062") Blank = For Loose pack (MXL,VXL)	
<b>RoHS</b> Only RoHS parts are available for 275 Series	

### 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"

The default lead length for loose pack is T1.

# Mouser Electronics

Authorized Distributor

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

[Littelfuse:](#)

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[027503.5M-](#) [0275.500M-](#) [0275012.M-](#) [0276002.M-](#) [0275.062M-](#) [0275.750M-](#) [0276003.M-](#) [0276025.M-](#) [0275004.M-](#)  
[0276007.M-](#) [0275002.M-](#) [027501.5M-](#) [0275030.VXL](#) [0275020.MXL](#) [0275025.MXL](#) [0275030.MRT1L](#)  
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[0275030.M-](#) [027502.5M-](#) [0275003.M-](#) [2750250000](#) [2750250005](#) [0275025.VXL](#) [0275020.VXL](#) [2750375000](#)  
[2751250005](#) [2751700005](#) [2751200000](#) [2750500005](#) [2752150005](#) [2751350005](#) [2751500000](#) [2751400005](#)  
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[2750750000](#) [2750063000](#)