

# Time-Lag Sub-Miniature Fuse

## 5mm × 20mm

**multicomp** PRO

**RoHS  
Compliant**



### Description

The time-lag fuse with high breaking capacity for use with printed circuit boards is used in a large variety of applications. This 5mm × 20mm device is constructed of a ceramic tube with electroplated brass end caps. The product with 250V AC rating and 1500 Ampere breaking capacity, offers excellent quality and is 100% tested for cold resistance and precise length.

### Features

- Miniature fuse with time-lag, high breaking capacity
- 5mm × 20mm physical dimensions
- Ceramic tube, encapsulated design with nickel - plated brass end caps
- Optional axial leads are Ø0.8mm × 38mm
- Lead-free and Halogen-free
- Designed compliant to IEC 60127-2/V

### Specifications

Operating Temperature	: -55°C to +125°C
Storage Conditions	: +10°C to +60°C
Relative Humidity	: ≤ 75% yearly average without dew, maximum 30 days at 95%
Vibration Resistance	: 24 cycles at 15 min. each 10-60Hz at 0.75mm amplitude 60-2000Hz at 10g acceleration

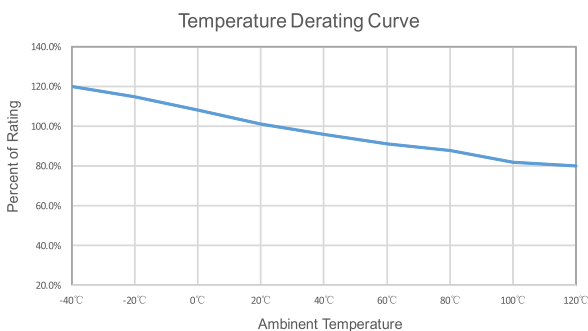
### Electrical Characteristics

Part Number	Rated Current	Max. Voltage	Max. Voltage Drop (mV)	Breaking Capacity	Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec)	Max. Power Dissipation (W)
MP001616	1A	250V AC	350	10kA@125V AC 1500A@250V AC 50-60Hz Cosφ=0.7-0.8	3.42	2.5

#### Note:

(1) Permissible continuous operating current is ≤100% at ambient temperature of 23°C (73.4°F)

### Temperature Derating Curve



$$\text{Calculation for ideal fuse selection} = \frac{\text{Operating Current (A)}}{\text{Rating (\%} \times 0.75)}$$

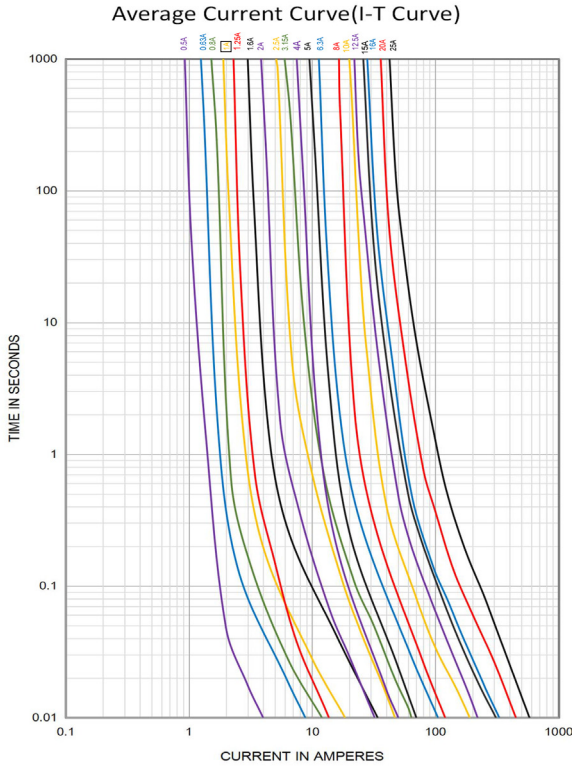
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# Time-Lag Sub-Miniature Fuse 5mm × 20mm



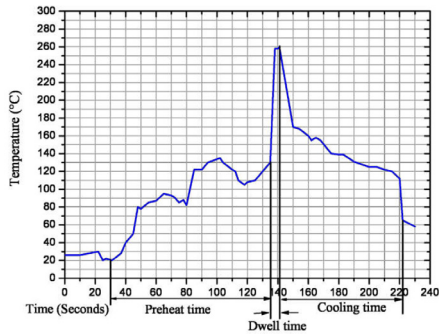
## Time vs Current Characteristics Table



Time vs Current Characteristics: UL-248-14

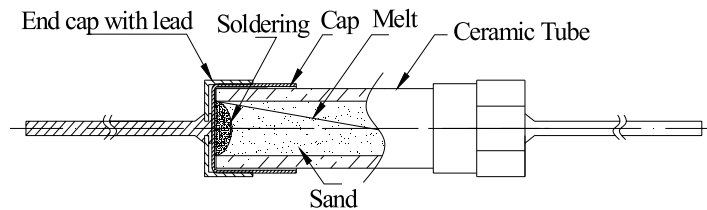
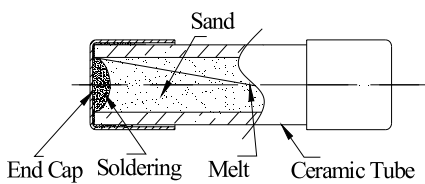
Rated Current	150%	210%	275%	400%	1000%
1A	>1H	<30min	750ms~80s	95ms~5s	10ms~150ms

## Soldering Parameters



260°C = ≤5 sec (Wave Soldering)  
 350°C = ≤3 sec (Hand Soldering)  
 Soldering Peak:  
 260°C = 10 sec (IEC 60068-20)

## Mechanical Specifications



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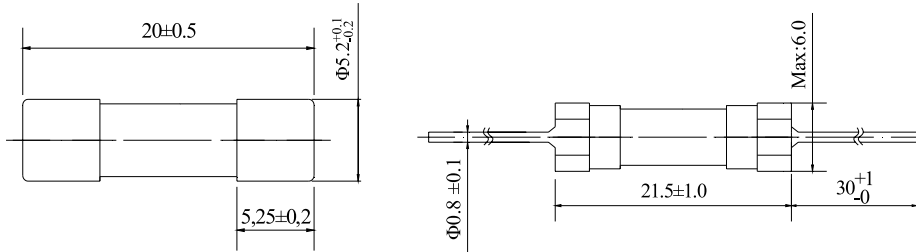


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### Diagram



Dimensions : Millimetres

### Part Number Table

Description	Part Number
Sub-Miniature Cartridge Fuse, Time-Lag, 1A, 250V AC, 5mm × 20mm	MP001616

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