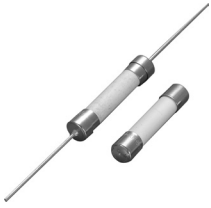# Time-Lag Sub-Miniature Fuse
6.35mm × 31.8mm

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Description

The product provides protection for printed circuit boards and is used in a large variety of applications that need fuses with time-delay, high interrupting rating and voltage rating characteristics. This miniature device is constructed of a ceramic tube and base with copper caps (tin plated copper lead wire optional). It offers excellent mounting characteristics and is 100% tested for cold resistance.

Features

- Miniature fuse with time delay, high interrupting and high voltage ratings
- Small size, tubular design
- Copper caps / ceramic fuse body
- 0.8mm or 1mm lead wires made of tin plated copper
- Protection against harmful over-currents in primary and secondary applications
- Lead-free and Halogen-free
- Designed according to UL-248-14

Specifications

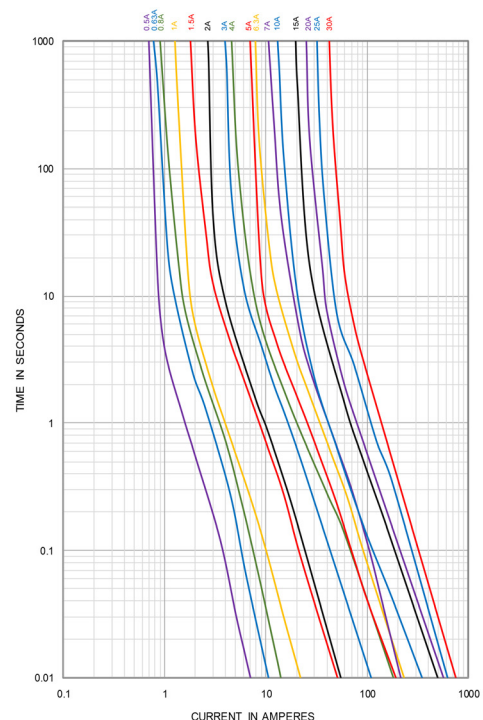|	
Operating Temperature	: -55°C to +125°C
Storage Conditions	: -55°C to +85°C
Relative Humidity	: ≤ 75% yearly average without dew, maximum 30 days at 95%
Vibration Resistance	: 24 cycles at 15 min. each 10-60Hz at 0.75mm amplitude 60-2000Hz at 10g acceleration

Electrical Specifications

Time vs Current Characteristics Table

(measured with constant current power supply)

Time vs Current Characteristics: UL248-14			
Rated current	**100%**	**135%**	**200%**
1A to 5A	>4h	<1h	5s~60s

Average Time Current (I-T) Curves

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sg.element14.com/b/multicomp-pro

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Time-Lag Sub-Miniature Fuse
## 6.35mm × 31.8mm

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Electrical characteristics at 25°C

Part Number	Amp Code	Rated Current	Rated Voltage	Nominal Melting I²t (A²sec)	Typical cold Resistance (mΩ)	Breaking Capacity
MP001617	1100	1A	125V AC 250V AC	4.84	353	10KA/125V AC 100A/250V AC
MP007105	1500	5A		361	34	10KA/125V AC 200A/250V AC

Notes:

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

(2) The current values used for calculating I^2T should be within the standard range of 8ms ~ 10ms.
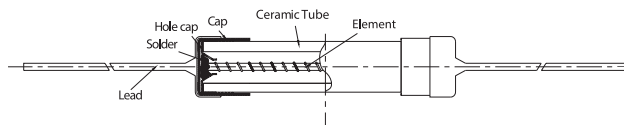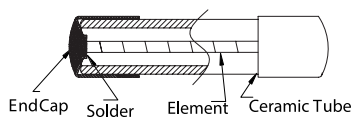
Temperature Derating Curve

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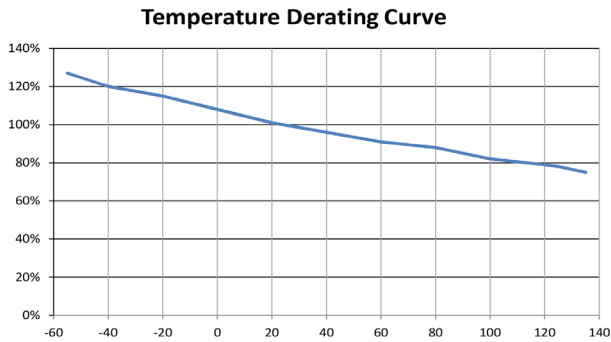
$$\text{Calculation for ideal fuse selection} = \frac{\text{Operating Current (A)}}{\text{Rating (\% × 0.75)}}$$

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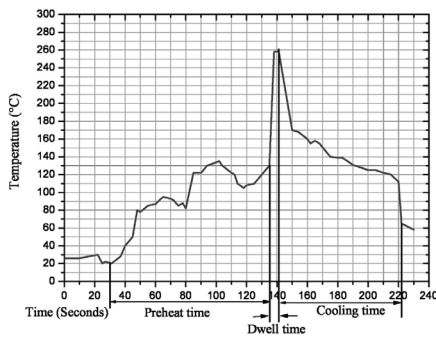
260°C ≤5 sec (Wave Soldering)
350°C ≤3 sec (Hand Soldering)
Soldering Peak:
260°C - 10 sec (IEC 60068-20)

Mechanical Specifications

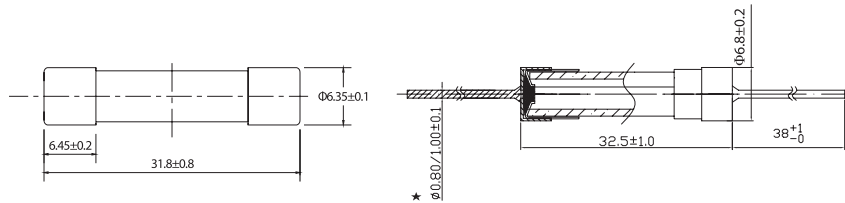Newark.com/multicomp-pro
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Time-Lag Sub-Miniature Fuse
6.35mm × 31.8mm

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Diagram

Φ6.35±0.1
6.45±0.2
31.8±0.8

Φ6.8±0.2
Φ0.80/1.00±0.1
32.5±1.0
38$^{+1}_{-0}$

★
500mA～12.5A ˙˙ Φ0.80mm
15.0A～30.0A ˙˙ Φ1.00mm

Part Number Table

Description	Part Number
Time-Lag Miniature Cartridge Fuse, 1A, 250V AC, 6.35mm × 31.8mm	MP001617
Time-Lag Miniature Cartridge Fuse, 5A, 250V AC, 6mm x 30mm	MP007105

Dimensions : Millimetres

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