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

multicomp PRO

RoHS Compliant

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

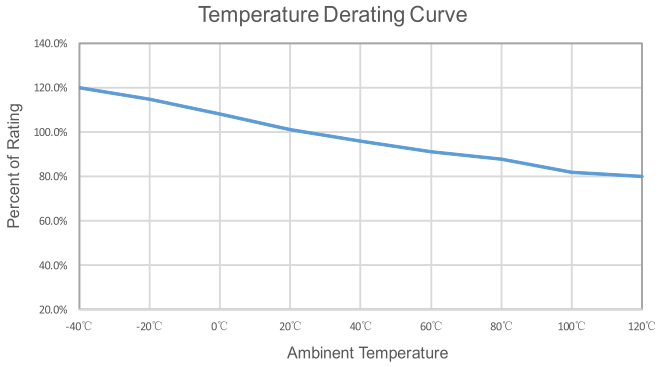
Specifications

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 Characteristics

Part Number	Rated Current	Breaking Capacity	Nominal Melting I^2t (A^2sec)
MP001617	1A	10kA/125V AC 100A/250V AC 50-60Hz cosφ=0.7-0.8	4.84

Temperature Derating Curve



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

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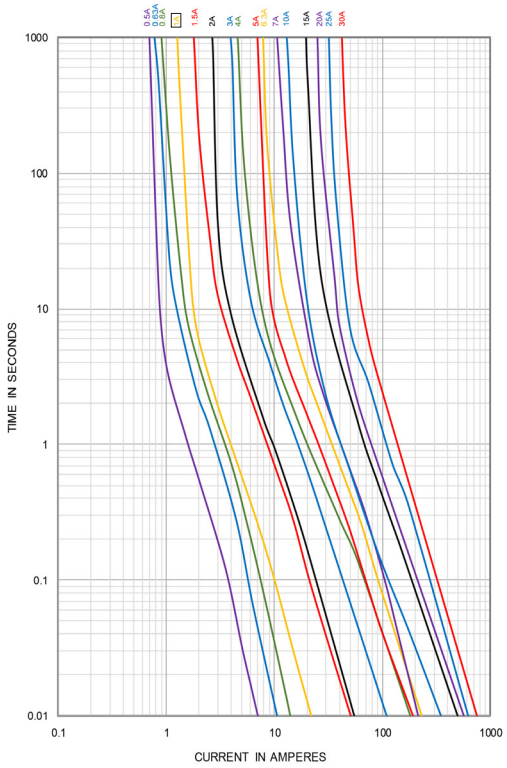
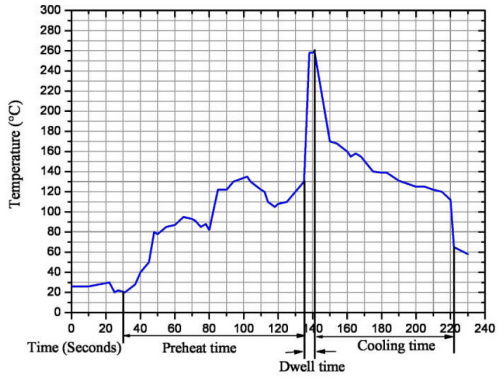
Time vs Current Characteristics Table

Average Time Current (I-T Curve)



Time vs Current Characteristics: UL-248-14			
Rated Current	100%	135%	200%
1A	>4h	<1h	5s~60s

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

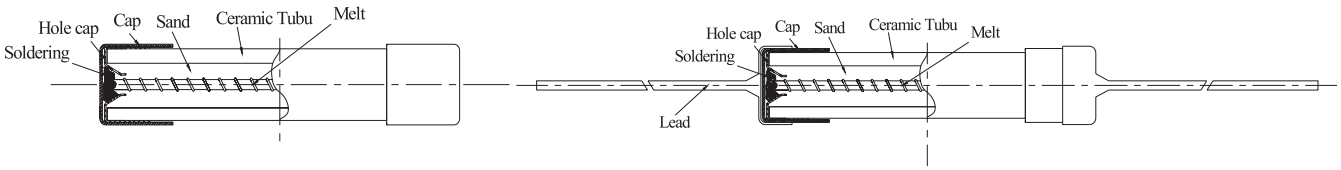


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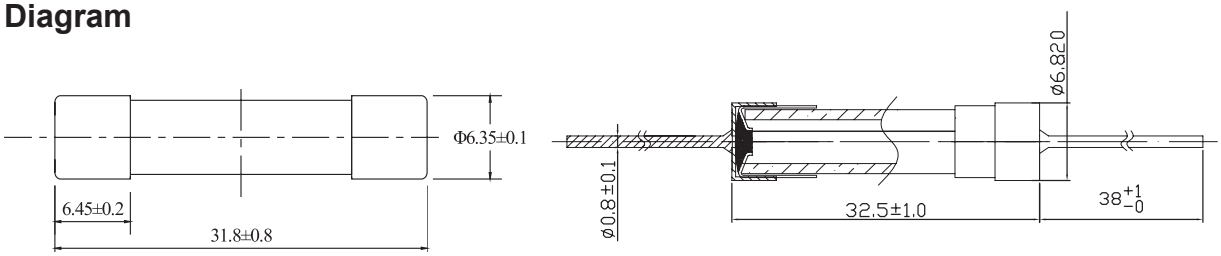
Diagram



Dimensions : Millimetres

Part Number Table

Description	Part Number
Sub-Miniature Cartridge Fuse, Time-Lag, 1A, 250V AC, 6.35mm × 31.8mm	MP001617

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