

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 electro-plated 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

Materials

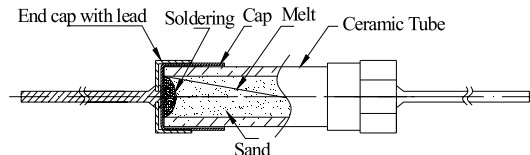
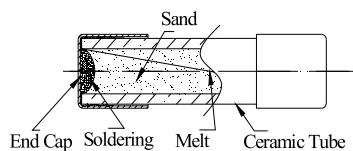
Tube	: Ceramic
End Caps	: Nickel-plated brass
Axial Leads	: Nickel-plated caps Tin-plated copper wires
Operating Temperature	: -55°C to +125°C
Storage Conditions	: +10°C to +60°C
Relative Humidity	: ≤ 75% yearly average without dew, maximum 30 days at 95%
Vibration Resistance	: 24 cycles at 15 min. each 10-60Hz at 0.75mm amplitude 60-2000Hz at 10g acceleration

Time VS Current Characteristics Table

Time vs Current Characteristics: IEC 60127-2/V

Rated Current	150%	210%	275%	400%	1000%
1A~3.15A	>1h	<30min	750ms~80s	95ms~5s	10ms~150ms
4A~10A	>1h	<30min	750ms~80s	150ms~5s	10ms~150ms
12A~25A	>30min	<30min	750ms~80s	150ms~8s	10ms~150ms

Construction



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Electrical Characteristics

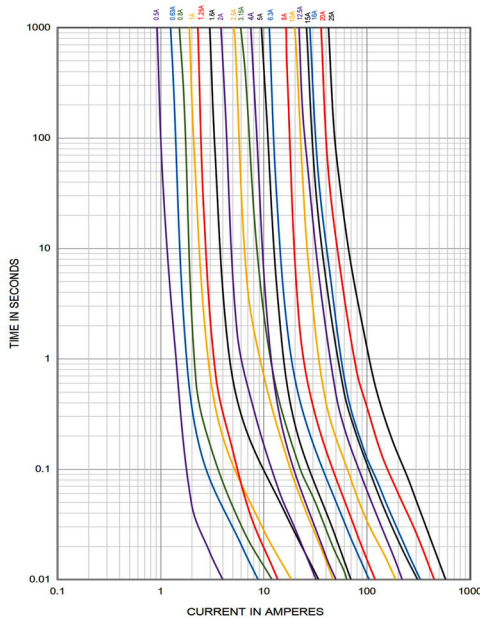
Part Number	Amp	Rated Current A	Max. Voltage	Max. Voltage Drop (mV)	Max. Power Dissipation (W)	Typical Cold Resistance (mΩ)	Nominal Melting I ² t(A ² sec)	Breaking capacity
MP001616	1100	1	125V AC 250V AC	350	2.5	150	3.42	10KA@125V AC 1500A@250V AC
MP006245	1100	1		350	2.5	150	3.42	
MP006251	1500	5		100	4	15	49	
MP007134	1630	6.3		100	4	12.1	110	
MP007135	2120	12		100	4	5.4	462	
MP007133	2125	12.5		100	4	5	484	

Note:

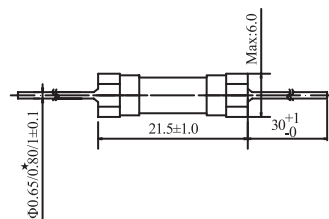
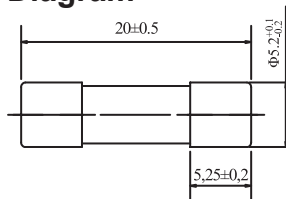
- (1) Permissible continuous operating current is ≤100% at ambient temperature of 23°C (73.4°F)
- (2) The cURus certification by 125V and 250V; the others certification only by 250V.
- (3) The current values used for calculating I²T should be within the standard range of 8ms ~ 10ms.

Average Time Current (I-T) Curves

Average Current Curve(I-T Curve)



Diagram



Note: ★
 500mA ~ 6.3A " Φ0.65mm
 8A ~ 12.5A " Φ0.80mm
 15A ~ 25A " Φ1.00mm

Dimensions : Millimetres

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Part Number Table

Description	Part Number
Time-Lag Miniature Cartridge Fuse, 1A, 250V AC, 5mm × 20mm	MP001616
Time-Lag Miniature Cartridge Fuse, 1A, 250V AC, Axial Leaded	MP006245
Time-Lag Miniature Cartridge Fuse, 5A, 250V AC, Axial Leaded	MP006251
Time-Lag Miniature Cartridge Fuse, 6.3A, 250V AC, 5mm × 20mm	MP007134
Time-Lag Miniature Cartridge Fuse, 12A, 250V AC, 5mm × 20mm	MP007135
Time-Lag Miniature Cartridge Fuse, 12.5A, 250V AC, 5mm × 20mm	MP007133

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