Time-Lag Miniature Cartridge Fuses
5mm x 20mm

RoHS Compliant

Description

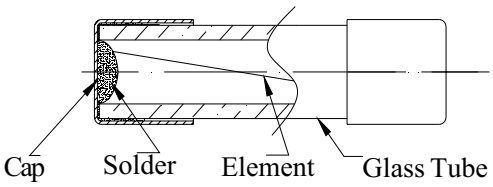
These time-lag fuse with low breaking capacity provides protection for printed circuit boards and is used in a large variety of applications. This Φ5mm × 20mm device is constructed of a glass tube with electro-plated brass end caps. These fuses offers excellent quality and is 100% tested for cold resistance and precise length.

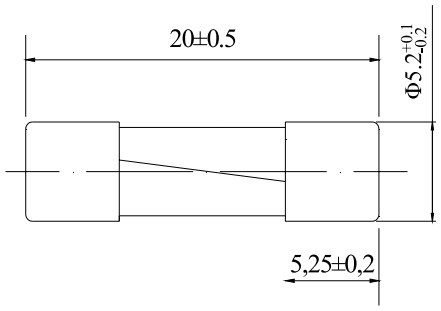
Features

- Miniature fuse with time-lag, low breaking capacity
- Φ5mm × 20mm physical dimensions
- Glass tube, encapsulated design with nickel - plated brass end caps
- Protection against harmful over-currents in primary and secondary applications

Mechanical 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 (60068-6) 10-60Hz at 0.75mm amplitude 60-2000Hz at 10g acceleration





Dimensions : Millimetres

Electrical Specifications

Time vs Current Characteristics Table
(measured with constant current power supply)

Time vs Current Characteristics: UL248-14					
Rated current	150%	210%	275%	400%	1000%
1.6A to 10A	>1h	<2min	600ms~10s	150ms~3s	20ms~300ms

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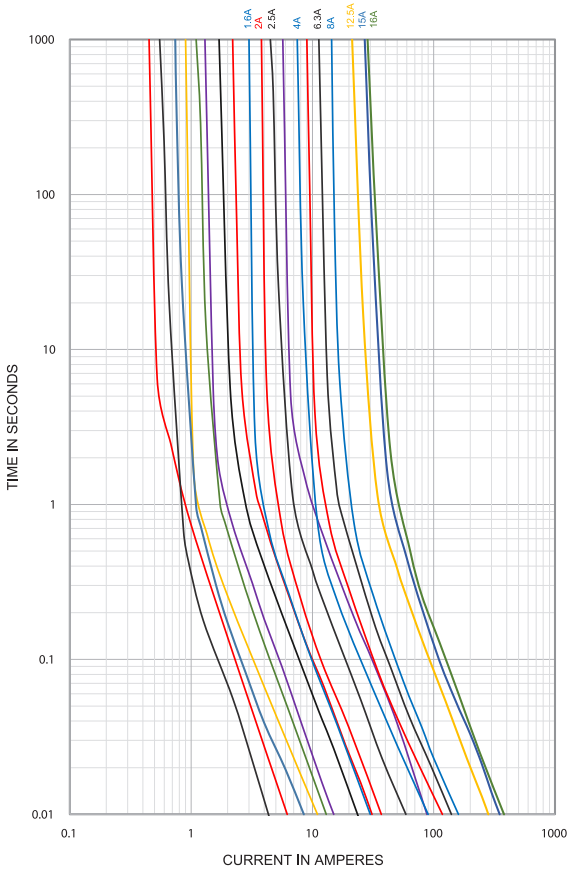
Average Current Curve(I-T Curve)

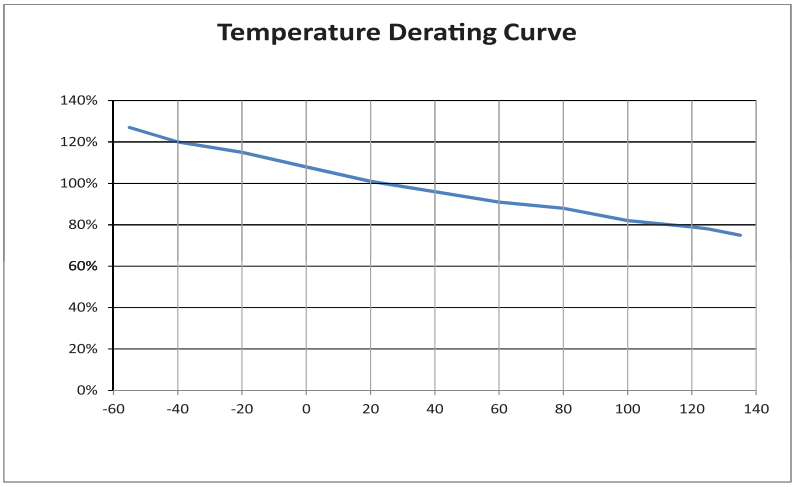


Electrical characteristics

Electrical Characteristics at 25°C														
Part Number	Rated Current	Rated Voltage	Max Voltage Drop(mV)	Max. Power Dissipation (W)	Nominal Melting I²t(A²sec)	Typical Cold Resistance (mΩ)	Breaking Capacity	Approvals						
								VDE	CQC	cURus	PSE	CCC	KC	TUV
MP007124	1.6A	250V AC	150	1.6	9	42	35A or 10In@250V AC	●	○	●	●	●	○	○
MP007119	2A				13.7	32								
MP007125	2.5A		120		36	41.5								
MP007120	4A		100		81	14.3								
MP007121	6.3A				196	8.2							●	
MP007122	8A			4	256	6.5			●	●	○	○	○	○
MP007123	10A				576	5.3								

Note: 1. Permissible continuous operating current is ≤100% at ambient temperature of 23°C (73.4°F)
2. The current values used for calculating I²t should be within the standard range of 8ms ~ 10ms.

Temperature Rerating Curve



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

Part Number Table

Description	Part Number
Time-Lag Miniature Cartridge Fuse, 1.6A, 250V AC, 5mm x 20mm	MP007124
Time-Lag Miniature Cartridge Fuse, 2A, 250V AC, 5mm x 20mm	MP007119
Time-Lag Miniature Cartridge Fuse, 2.5A, 250V AC, 5mm x 20mm	MP007125
Time-Lag Miniature Cartridge Fuse, 4A, 250V AC, 5mm x 20mm	MP007120
Time-Lag Miniature Cartridge Fuse, 6.3A, 250V AC, 5mm x 20mm	MP007121
Time-Lag Miniature Cartridge Fuse, 8A, 250V AC, 5mm x 20mm	MP007122
Time-Lag Miniature Cartridge Fuse, 10A, 250V AC, 5mm x 20mm	MP007123