

Time-Lag Miniature Cartridge Fuses

5mm x 20mm

multicomp PRO

**RoHS
Compliant**



Description

These time-lag fuse with high breaking capacity provides protection for printed circuit boards and is used in a large variety of applications. This $\Phi 5\text{mm} \times 20\text{mm}$ device is constructed of a ceramic tube with electro-plated brass end caps. These fuses offers excellent quality and is 100% tested for cold resistance and precise length.

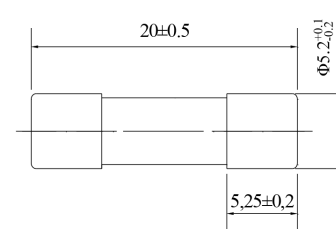
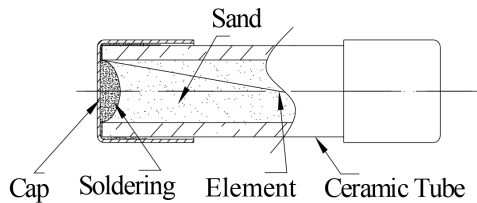


Features

- Miniature fuse with time-lag, low breaking capacity
- $\Phi 5\text{mm} \times 20\text{mm}$ 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 : $+10^{\circ}\text{C}$ to $+60^{\circ}\text{C}$
- Relative humidity : $\leq 75\%$ 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%
6.3A	>1h	<30min	750ms to 80s	150ms to 5s	10ms to 150ms
12A to 12.5A	>30min	<30min		150ms to 8s	

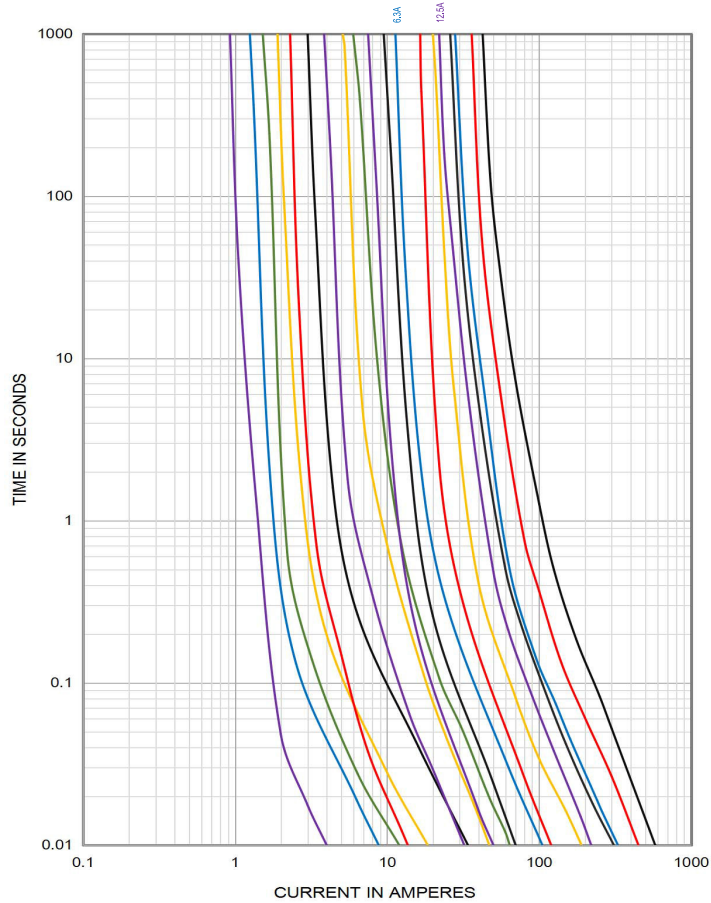
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Average Time Current (I-T) Curves

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)	Typical Cold Resistance (mΩ)	Nominal Melting I ² t(A ² sec)	Breaking Capacity	Approvals								
								VDE	CCC	cURus	PSE	CQC	TUV	KC	BSI	SEMKO
MP007134	6.3A	250V AC	100	4	12.1	110	10KA@ 125V AC 1500A@ 250V AC	●	●	●	●	○	○	●	●	●
MP007135	12A				5.4	462		○	○	●	○	○	●	○	○	
MP007133	12.5A				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.

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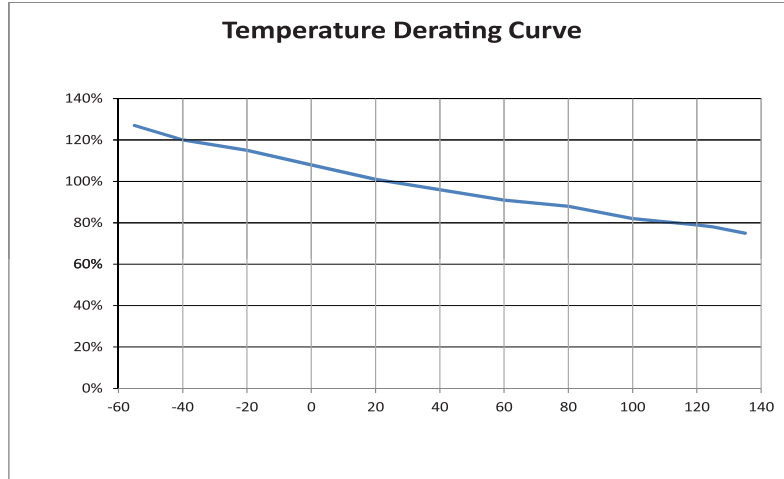


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Temperature Derating Curve



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, 6.3A, 250V AC, 5mm x 20mm	MP007134
Time-Lag Miniature Cartridge Fuse, 12A, 250V AC, 5mm x 20mm	MP007135
Time-Lag Miniature Cartridge Fuse, 12.5A, 250V AC, 5mm x 20mm	MP007133

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