

# Time-Lag Miniature Cartridge Fuses

## 6mm x 30mm

**multicomp** PRO

**RoHS  
Compliant**



### Description

These time-lag fuse 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 6mm x 30mm 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.

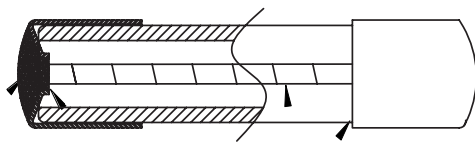


### Features

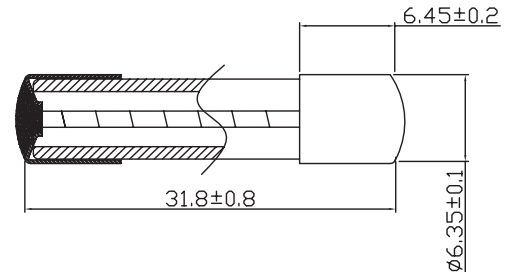
- Miniature fuse with time-lag, high interrupting ratings and voltage ratings
- $\Phi 6.35\text{mm} \times 31.8\text{mm}$  physical dimensions
- Glass tube, encapsulated design with nickel - plated brass end caps
- Protection against harmful over-currents in primary and secondary applications.

### Mechanical Specifications

- Operating Temperature :  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}$
- 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



End Cap   Solder   Element   Glass Tube



Dimensions : Millimetres

### Electrical Specifications

#### Time vs Current Characteristics Table

(measured with constant current power supply)

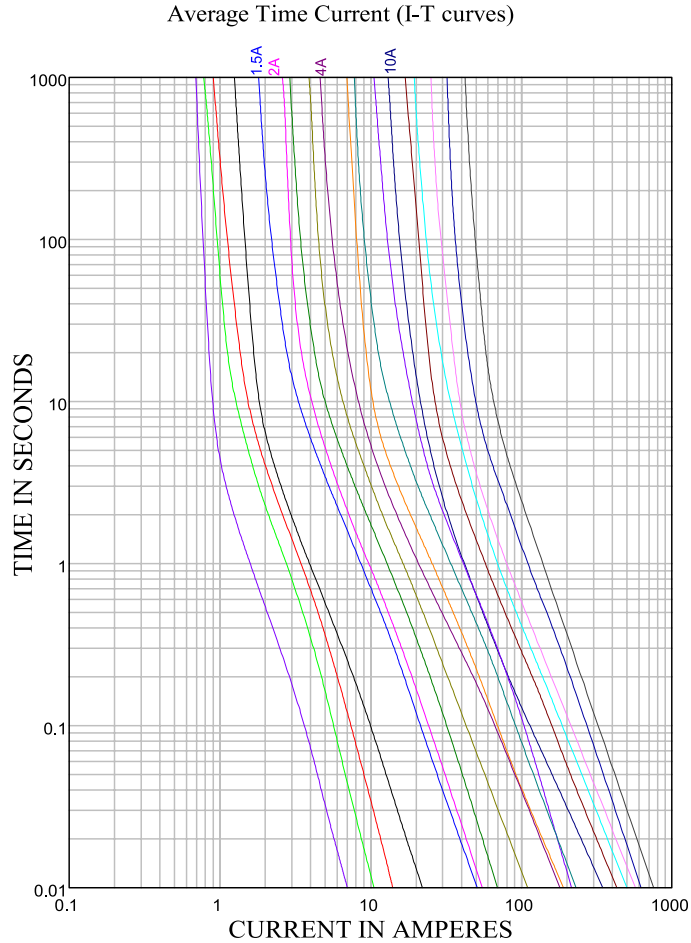
Time vs Current Characteristics: UL248-14						
Rated current	100%	135%	200%	275%	400%	1000%
1.5A to 10A	>4h	<1h	5s~60s	-	-	-
10A		-	<120s	600ms~10s	150ms~3s	20ms~300ms

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### Average Time Current (I-T) Curves



### Electrical characteristics

Electrical Characteristics at 25°C									
Part Number	Rated Current	Rated Voltage	Nominal Melting I <sup>2</sup> t(A <sup>2</sup> sec)	Typical Cold Resistance (mΩ)	Breaking Capacity	Approvals			
						cULus	cURus	CQC	PSE
MP007109	1.5A	250V AC	26.01	210	10KA@125VAC 100A@250VAC	●	○	○	○
MP007106	2A		30.25	124.4					
MP007107	4A		324	37	10KA@125VAC 200A@250VAC				
MP007108	10A		1190	8.3	400A@125VAC 200A@250VAC				

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

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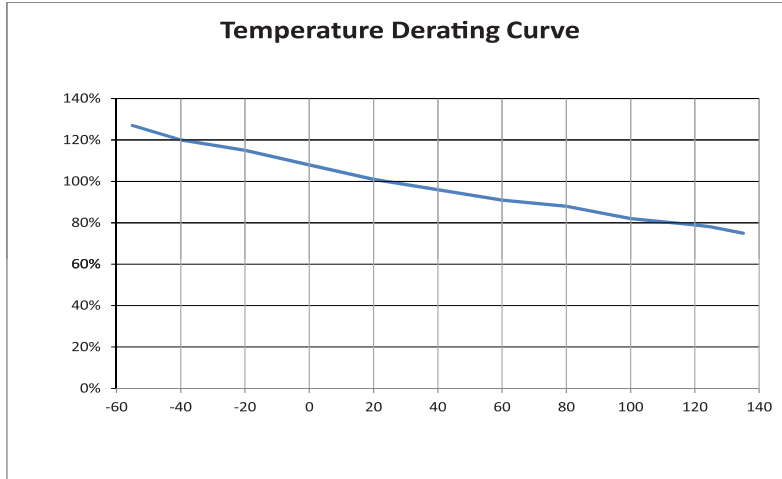


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### Temperature Derating Curve



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, 1.5A, 250V AC, 6mm x 30mm	MP007109
Time-Lag Miniature Cartridge Fuse, 2A, 250V AC, 6mm x 30mm	MP007106
Time-Lag Miniature Cartridge Fuse, 4A, 250V AC, 6mm x 30mm	MP007107
Time-Lag Miniature Cartridge Fuse, 10A, 250V AC, 6mm x 30mm	MP007108

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