

Fast-Acting Miniature Cartridge Fuses

6mm x 30mm

multicomp PRO

**RoHS
Compliant**



Description

These fast-acting fuse with high interrupting ratings and high voltage ratings provides protection for printed circuit boards and is used in a large variety of applications. This 6mm x 30mm device is constructed of a ceramic tube with electro-plated brass end caps. These fuses with 250V AC rating and 100A to 200 Ampere breaking capacity, offers excellent quality and is 100% tested for cold resistance and precise length.

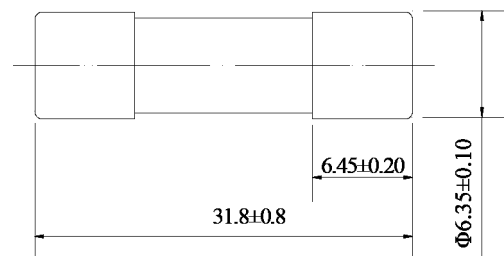
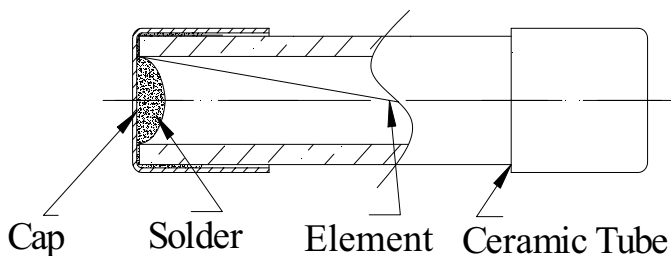


Features

- Miniature quick-acting fuse with high interrupting ratings and voltage ratings
- $\Phi 6.35\text{mm} \times 31.8\text{mm}$ physical dimensions
- Ceramic 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)

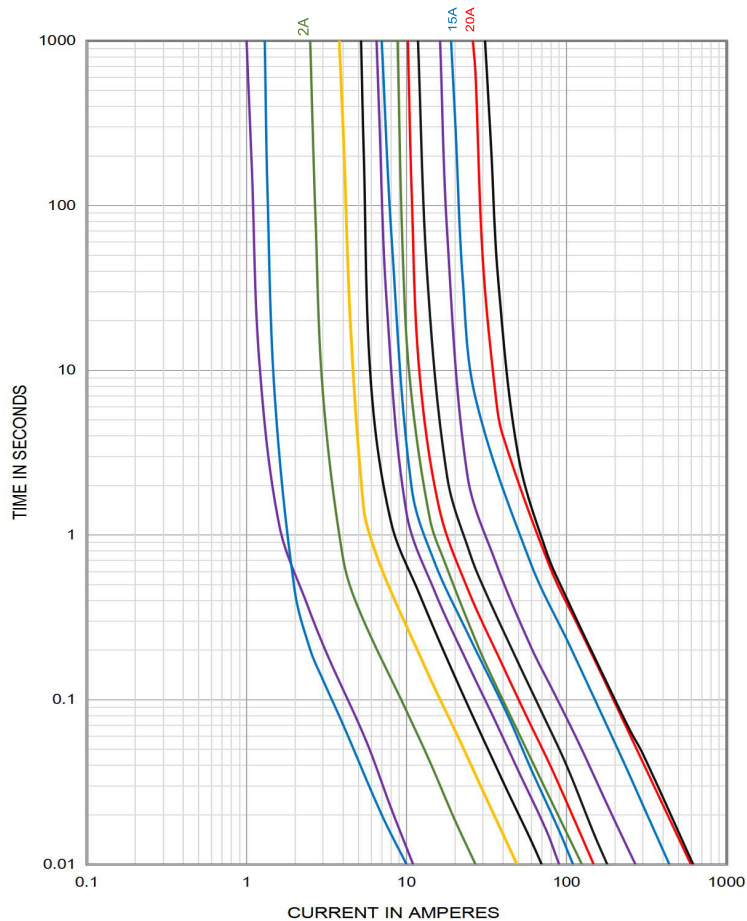
Time vs Current Characteristics: UL248-14			
Rated current	100%	135%	200%
2A to 20A	>4h	<1h	<10s

Fast-Acting Miniature Cartridge Fuses 6mm x 30mm



Average Time Current (I-T) Curves

Average Current Curve(I-T Curve)



Electrical characteristics

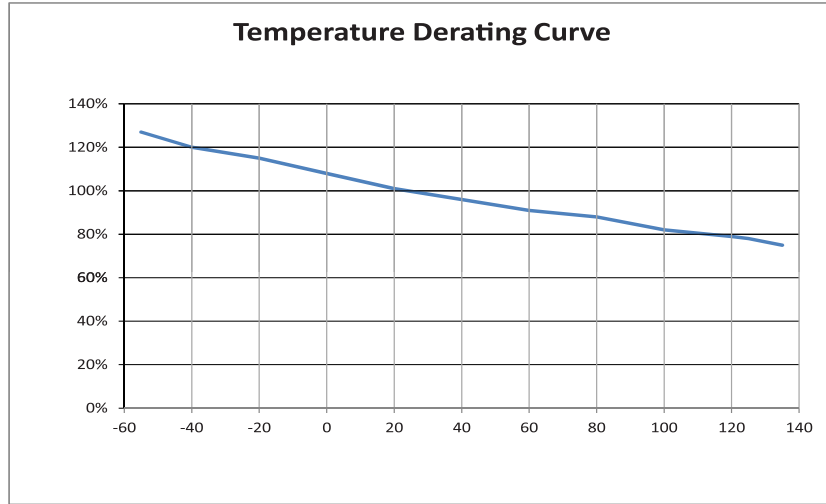
Electrical Characteristics at 25°C									
Part Number	Rated Current	Rated Voltage	Nominal Melting I ² t(A ² sec)	Typical Cold Resistance (mΩ)	Breaking Capacity	Approvals			
						cULus	cURus	PSE	CQC
MP007102	2A	250VAC	7.29	68	10KA/125V AC 100A/250V AC	●	○	○	○
MP007104	15A		1936	4.4		○	●	○	○
MP007103	20A		3600	3.3	400A/125V AC 200A/250V AC	○	●	●	○

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.

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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
Fast-Acting Miniature Cartridge Fuse, 2A, 250V AC, 6mm x 30mm	MP007102
Fast-Acting Miniature Cartridge Fuse, 15A, 250V AC, 6mm x 30mm	MP007104
Fast-Acting Miniature Cartridge Fuse, 20A, 250V AC, 6mm x 30mm	MP007103

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