

Fast-Acting Miniature Cartridge Fuses

6mm x 30mm

multicomp PRO

**RoHS
Compliant**



Description

These fast-acting fuse with low breaking capacity provides protection for printed circuit boards and is used in a large variety of applications. This 6mm × 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.

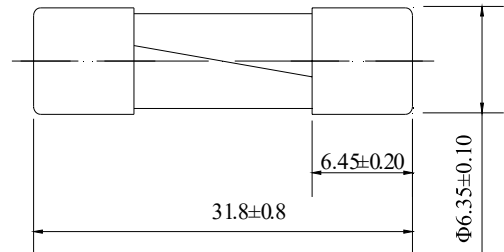
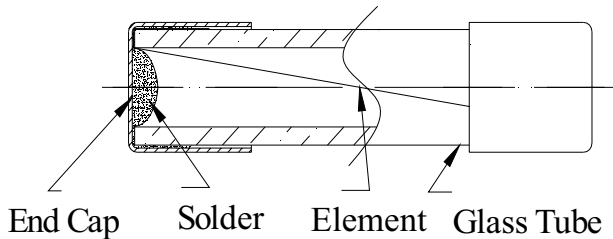


Features

- Miniature fuse with quick-acting, 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°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)

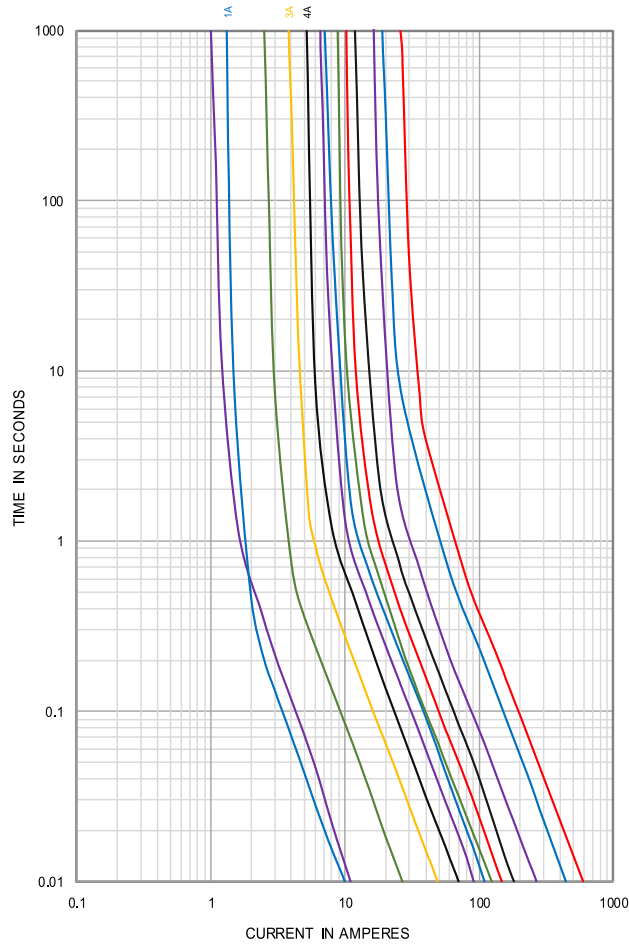
Time vs Current Characteristics: UL248-14				
Rated current	100%	110%	135%	200%
1A to 4A	>4h	/	<1h	<10s

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6mm x 30mm



Average Time Current (I-T) Curves



Electrical characteristics

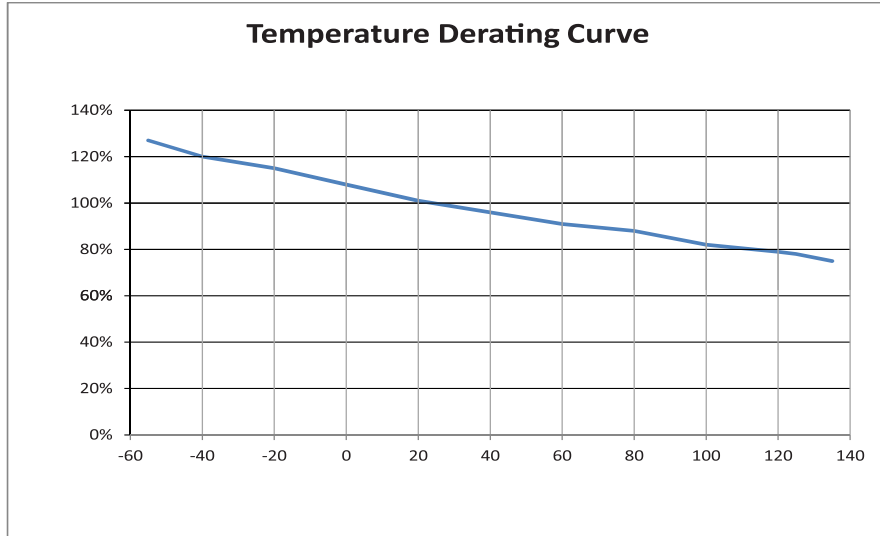
Electrical Characteristics at 25°C									
Part Number	Rated Current	Max. Voltage	Nominal Melting $I^2t(A^2sec)$	Typical Cold Resistance (mΩ)	Breaking Capacity	Approvals			
						PSE	CQC	cURus	cURus
MP007110	1A	250V AC	1	150	10KA@125VAC 100A@250VAC	○	○	●	○
MP007111	3A		24	36					
MP007112	4A		49	27.55	10KA@125VAC 200A@250VAC				

- Note:
1. Permissible continuous operating current is $\leq 100\%$ at ambient temperature of 23°C (73.4°F)
 2. The cURus and cULus certification by 125V and 250V; the CQC certification by 250V; the PSE certification by 125V
 3. The current values used for calculating I^2t should be within the standard range of 8ms ~ 10ms.

Newark.com/multicomp-pro
 Farnell.com/multicomp-pro
 Element14.com/multicomp-pro



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, 1A, 250V AC, 6mm x 30mm	MP007110
Fast-Acting Miniature Cartridge Fuse, 3A, 250V AC, 6mm x 30mm	MP007111
Fast-Acting Miniature Cartridge Fuse, 4A, 250V AC, 6mm x 30mm	MP007112

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