Fast-Acting Miniature Cartridge Fuses
6mm x 30mm

multicomp PRO

RoHS Compliant

Description

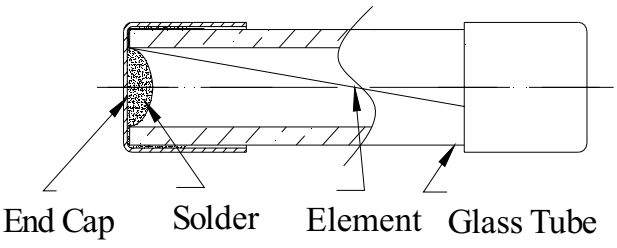
These fast-acting fuse with low breaking capacity provides protection for printed circuit boards and is used in a large variety of applications. This 6mm × 30mm device is constructed of a glass tube with electro-plated brass end caps. These fuses offers excellent quality and is 100% tested for cold resistance and precise length.

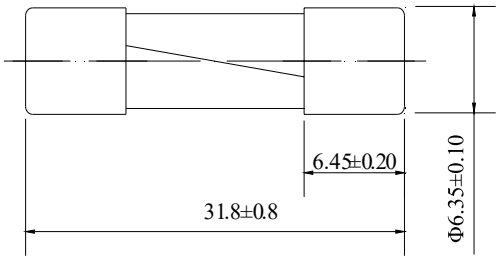
Features

- Miniature fuse with quick-acting, high interrupting ratings and voltage ratings
- Φ6.35mm x 31.8mm 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

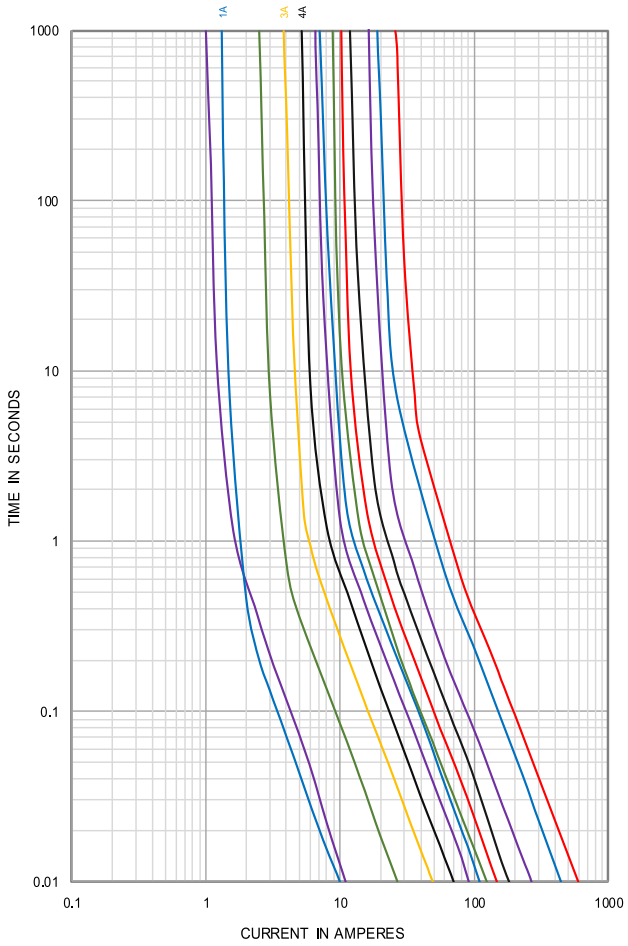
Electrical Specifications

Time vs Current Characteristics Table

(measured with constant current power supply)

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

Average Time Current (I-T) Curves

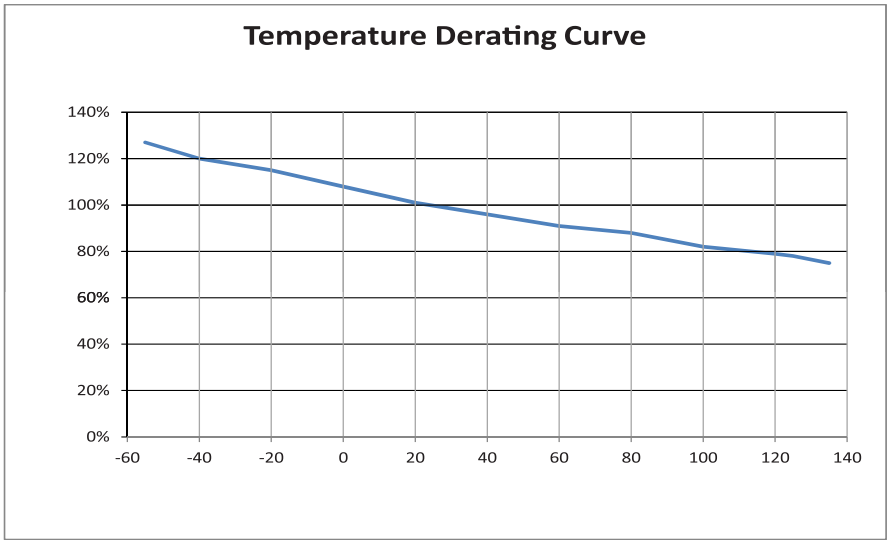


Electrical characteristics

Electrical Characteristics at 25°C									
Part Number	Rated Current	Max. Voltage	Nominal Melting I²t(A²sec)	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 ≤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 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
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