

Fast-Acting Miniature Cartridge Fuses 5mm × 20mm

multicomp PRO

**RoHS
Compliant**



Description

These fast-acting fuse with high breaking capacity provides protection for printed circuit boards and is used in a large variety of applications. This Ø5mm × 20mm 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 fast-acting, high breaking capacity
- Ø5mm × 20mm physical dimensions
- Glass tube, encapsulated design with nickel - plated brass end caps
- Protection against harmful over-currents in primary and secondary applications
- Lead-free and Halogen-free
- Designed compliant to UL248-14 IEC60127-7

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 10-60Hz at 0.75mm amplitude 60-2000Hz at 10g acceleration

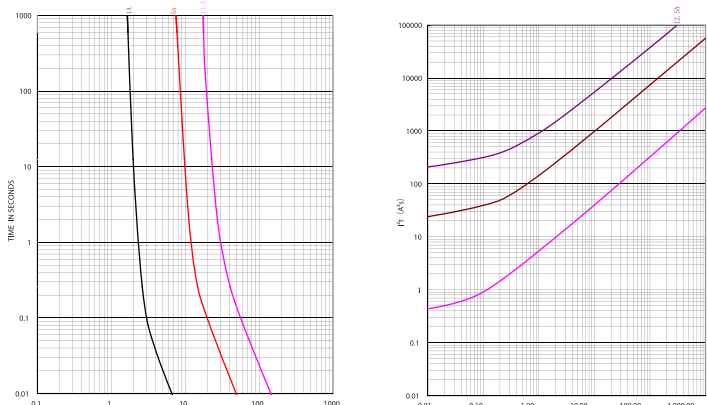
Electrical Specifications

Time vs Current Characteristics Table

(measured with constant current power supply)

Time vs Current Characteristics: UL248-14					
Rated current	100%	210%	275%	400%	1000%
1A to 12.5A	>1h	<30min	40ms to 20s	10ms to 1s	≤30ms

Average Time Current (I-T) Curves



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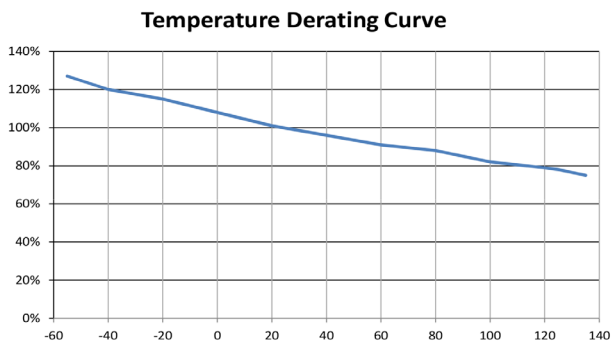
Electrical characteristics at 25°C

Part Number	Amp Code	Rated Current	Rated Voltage	Nominal Melting I ² t (A ² sec)	Typical cold Resistance (mΩ)	Breaking Capacity
MP007131	1100	1A	250V AC 300V AC	0.83	223	1500A@250V AC 1500A@300V AC
MP007132	1500	5A		23.92	20	
MP007130	2125	12.5A		218.8	7.4	

Notes:

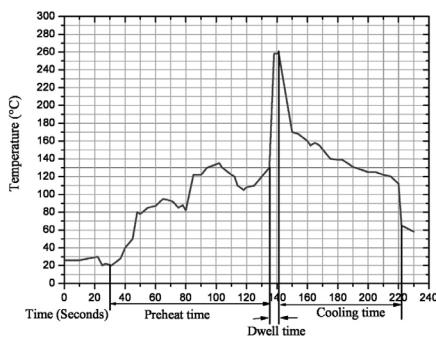
- (1) Permissible continuous operating current is ≤100% at ambient temperature of 23°C (73.4°F)
- (2) Typical pre-arcing I²t are measured at 10In current.

Temperature Derating Curve



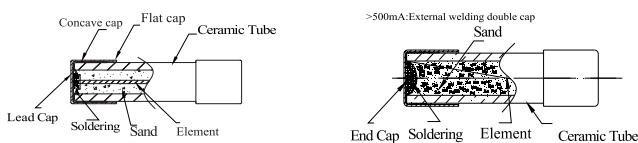
$$\text{Calculation for ideal fuse selection} = \frac{\text{Operating Current (A)}}{\text{Rating (\%} \times 0.75)}$$

Soldering Parameters



260°C ≤5 sec (Wave Soldering)
 350°C ≤3 sec (Hand Soldering)
 Soldering Peak:
 260°C - 10 sec (IEC 60068-20)

Mechanical Specifications



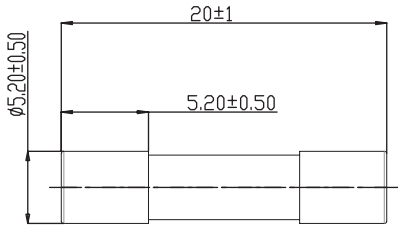
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Diagram



Part Number Table

Description	Part Number
Fast-Acting Miniature Cartridge Fuse, 1A, 250V AC, 5mm × 20mm	MP007131
Fast-Acting Miniature Cartridge Fuse, 5A, 250V AC, 5mm × 20mm	MP007132
Fast-Acting Miniature Cartridge Fuse, 12.5A, 250V AC, 5mm × 20mm	MP007130

Dimensions : Millimetres

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