

# Fast-Acting Miniature Cartridge Fuses 6mm × 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
- Ø6.35mm × 31.8mm 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 UL 248-14 J60127 GB/T9364.7

## 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 (60068-6)  
10-60Hz at 0.75mm amplitude  
60-2000Hz at 10g acceleration

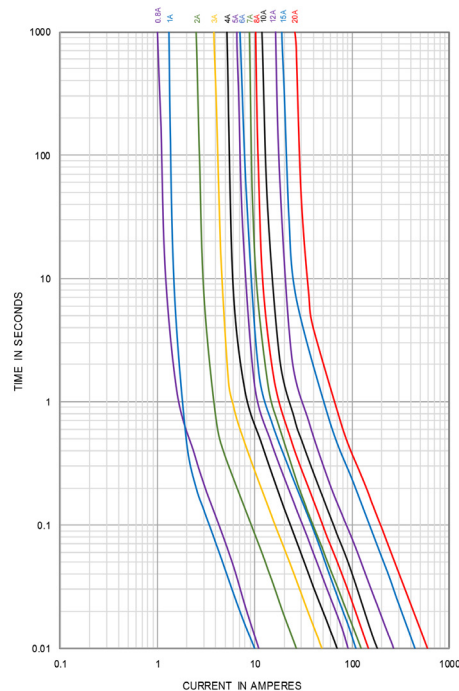
## Electrical Specifications

### Time vs Current Characteristics Table

(measured with constant current power supply)

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

## Average Time Current (I-T) Curves



**multicomp** PRO

# Fast-Acting Miniature Cartridge Fuses 6mm × 30mm

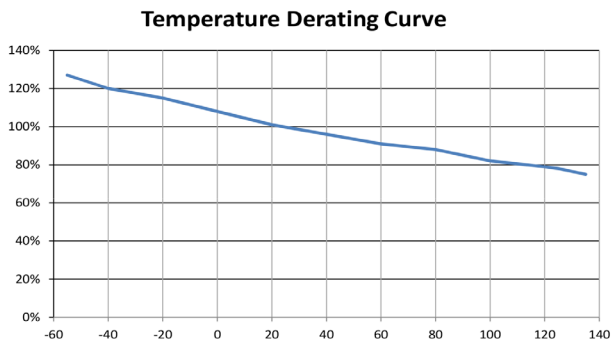


## Electrical characteristics at 25°C

Part Number	Amp	Rated Current	Max. Voltage	Nominal Melting I <sup>2</sup> t(A <sup>2</sup> sec)	Typical Cold Resistance (mΩ)	Breaking Capacity
MP007110	1100	1A	250V AC	1	150	10KA@125V AC 100A@250V AC
MP007111	1300	3A		24	36	
MP007112	1400	4A		49	27.55	10KA@125V AC 200A@250V AC

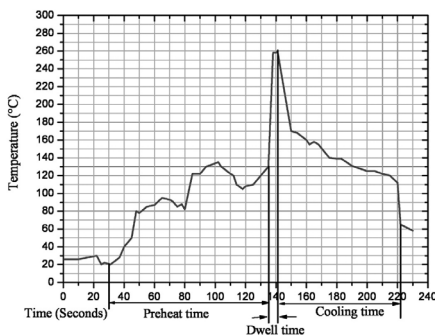
- Note: 1. Permissible continuous operating current is ≤100% at ambient temperature of 23°C (73.4°F)  
 2. The cURus and cULus certification by 125V and 250V; the CQC certification by 250V; the PSE certification by 125V  
 3. The current values used for calculating I<sup>2</sup>t should be within the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

## Temperature Derating Curve



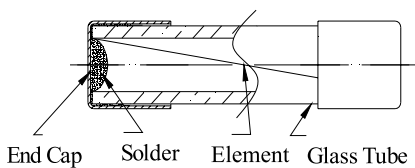
$$\text{Calculation for ideal fuse selection} = \frac{\text{Operating Current (A)}}{\text{Rating (\%} \times 0.75)}$$

## 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



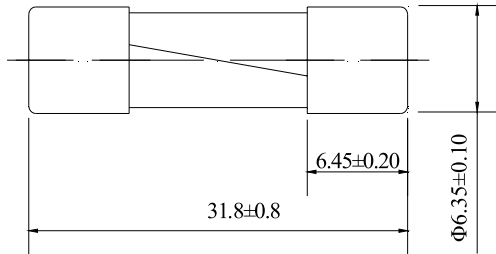
Newark.com/multicomp-pro  
 Farnell.com/multicomp-pro  
 sg.element14.com/b/multicomp-pro



# Fast-Acting Miniature Cartridge Fuses 6mm × 30mm



## Diagram



## Part Number Table

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

Dimensions : Millimetres

**Important Notice :** This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
sg.element14.com/b/multicomp-pro

