

# Fast-Acting Miniature Cartridge Fuse

## 5mm x 20mm

**multicomp** PRO

**RoHS  
Compliant**



### Description

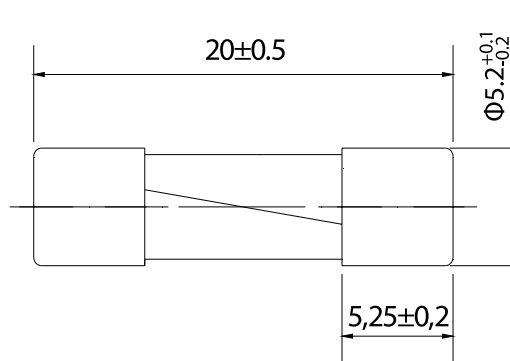
This fast-acting fuse with low breaking capacity provided protection for printed circuit boards and is used in a large variety of applications. This  $\Phi 5\text{mm} \times 20\text{mm}$  device is constructed of a glass tube with electro-plated brass end caps. This fuse offers excellent quality and is 100% tested for cold resistance and precise length.

### Features

- Miniature fuse with fast-acting, low breaking capacity
- $\Phi 5\text{mm} \times 20\text{mm}$  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 :  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}$   
 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)

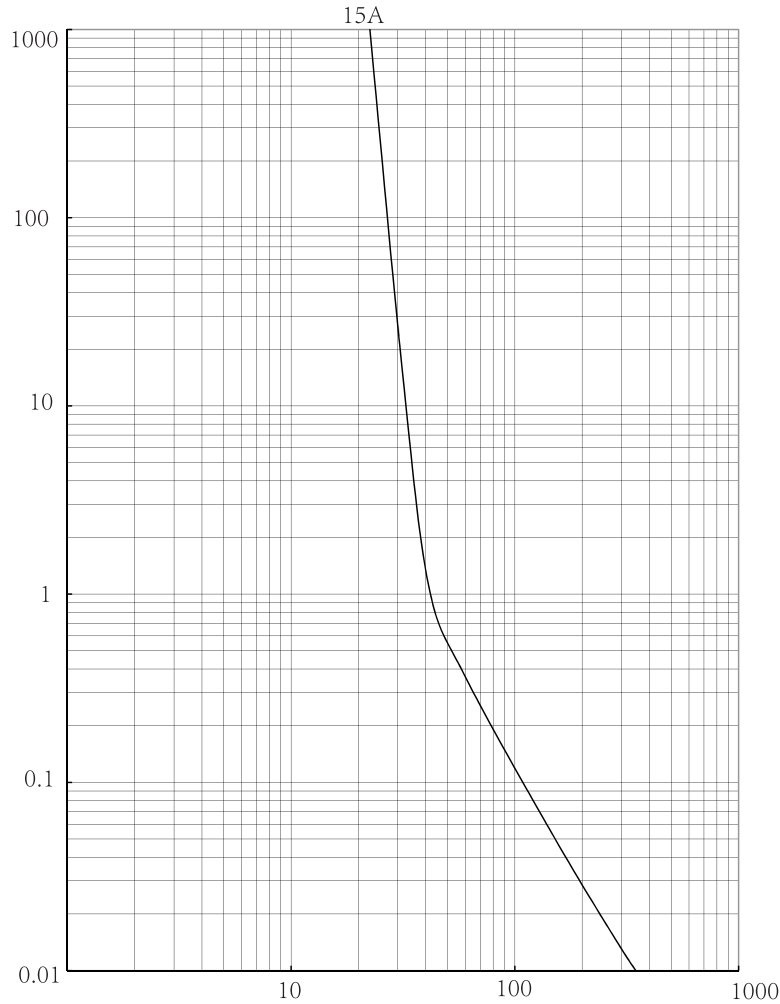
Time vs Current Characteristics: UL248-14					
Rated current	150%	210%	275%	400%	1000%
15A	>30min	<30min	50ms~3s	10ms~600ms	$\leq 80\text{ms}$

# Fast-Acting Miniature Cartridge Fuse

## 5mm x 20mm



### Time-Current Characteristics



### Electrical characteristics

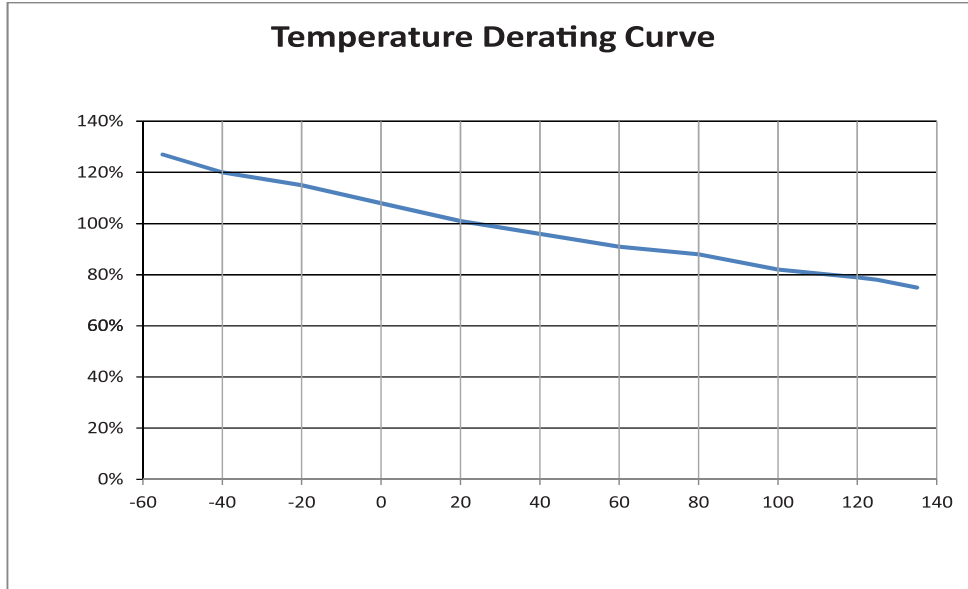
Electrical Characteristics at 25°C													
Part Number	Rated Current	Rated Voltage	Voltage Drop Max(mV)	Max Power Dissipation (W)	Typical Cold Resistance (mΩ)	Nominal Melting I <sup>2</sup> T (A <sup>2</sup> sec)	Breaking Capacity	Approvals					
								cURus	CQC	VDE	PSE	CCC	
MP007118	15A	250V AC	100	6	3.2	980	10KA/125V AC 100A/250V AC			o			

- Note:
1. Permissible continuous operating current is 100% at ambient temperature of 23°C (73.4°F)
  2. The cURus certification by 125V and 250V; the VDE certification with 8A~10A by 125V and 250V; the others certification by 250V.
  3. The current values used for calculating I<sup>2</sup>t 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, 15A, 250V AC, 5mm x 20mm	MP007118

**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.