

# Time-Lag Miniature Cartridge Fuses

## 5mm x 20mm

**multicomp** PRO

**RoHS  
Compliant**



### Description

These time-lag fuse with low breaking capacity provides 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. These fuses offers excellent quality and is 100% tested for cold resistance and precise length.

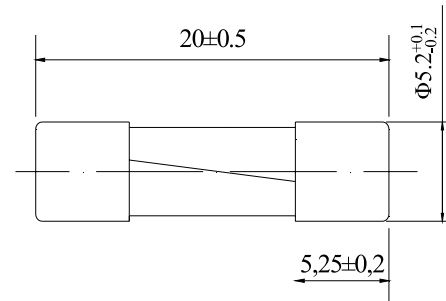
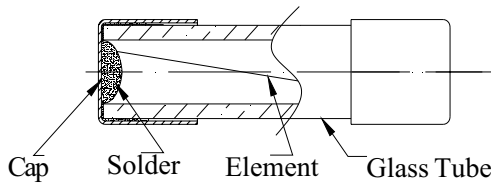


### Features

- Miniature fuse with time-lag, 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)

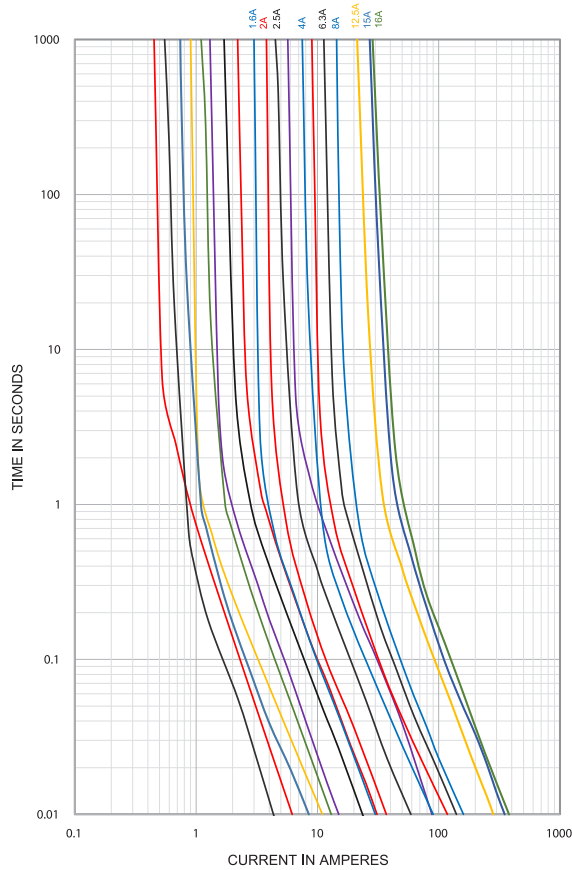
Time vs Current Characteristics: UL248-14					
Rated current	150%	210%	275%	400%	1000%
1.6A to 10A	>1h	<2min	600ms~10s	150ms~3s	20ms~300ms

# Time-Lag Miniature Cartridge Fuses

## 5mm x 20mm



Average Current Curve(I-T Curve)



### Electrical characteristics

Electrical Characteristics at 25°C													
Part Number	Rated Current	Rated Voltage	Max Voltage Drop(mV)	Max. Power Dissipation (W)	Nominal Melting I <sup>2</sup> t(A <sup>2</sup> sec)	Typical Cold Resistance (mΩ)	Breaking Capacity	Approvals					
								VDE	CQC	cURus	PSE	CCC	KC
MP007124	1.6A	250V AC	150	1.6	9	42	35A or 10In@250V AC	●	○	●	●	○	○
MP007119	2A				13.7	32							
MP007125	2.5A		120		36	41.5							
MP007120	4A		100		81	14.3							
MP007121	6.3A				196	8.2							
MP007122	8A				256	6.5							
MP007123	10A				576	5.3							

Note: 1. Permissible continuous operating current is ≤100% at ambient temperature of 23°C (73.4°F)  
 2. 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

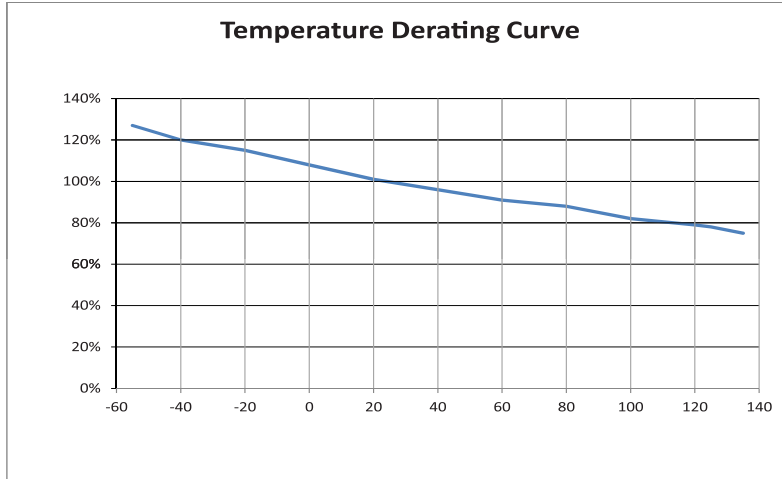


# Time-Lag Miniature Cartridge Fuses

## 5mm x 20mm



### Temperature Derating Curve



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

### Part Number Table

Description	Part Number
Time-Lag Miniature Cartridge Fuse, 1.6A, 250V AC, 5mm x 20mm	MP007124
Time-Lag Miniature Cartridge Fuse, 2A, 250V AC, 5mm x 20mm	MP007119
Time-Lag Miniature Cartridge Fuse, 2.5A, 250V AC, 5mm x 20mm	MP007125
Time-Lag Miniature Cartridge Fuse, 4A, 250V AC, 5mm x 20mm	MP007120
Time-Lag Miniature Cartridge Fuse, 6.3A, 250V AC, 5mm x 20mm	MP007121
Time-Lag Miniature Cartridge Fuse, 8A, 250V AC, 5mm x 20mm	MP007122
Time-Lag Miniature Cartridge Fuse, 10A, 250V AC, 5mm x 20mm	MP007123

**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  
 Element14.com/multicomp-pro

