

Time-Lag Miniature Cartridge Fuse

6mm x 30mm

multicomp PRO

**RoHS
Compliant**



Description

This Fuse provides protection for printed circuit boards and is used in a large variety of applications that need fuses with time-delay, high interrupting rating and voltage rating characteristics. This miniature device is constructed of a ceramic tube and base with copper caps. It offers excellent mounting characteristics and is 100% tested for cold resistance.

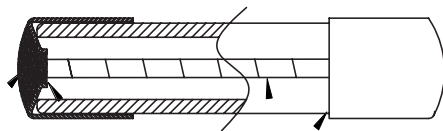


Features

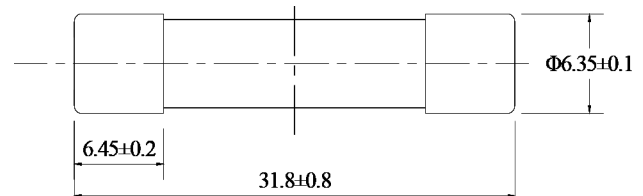
- Miniature fuse with time delay.
- Copper caps / ceramic fuse body.
- Protection against harmful over-currents in primary and secondary applications.

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



End Cap Solder Element Ceramic Tube



Dimensions : Millimetres

Electrical Specifications

Time vs Current Characteristics Table

(measured with constant current power supply)

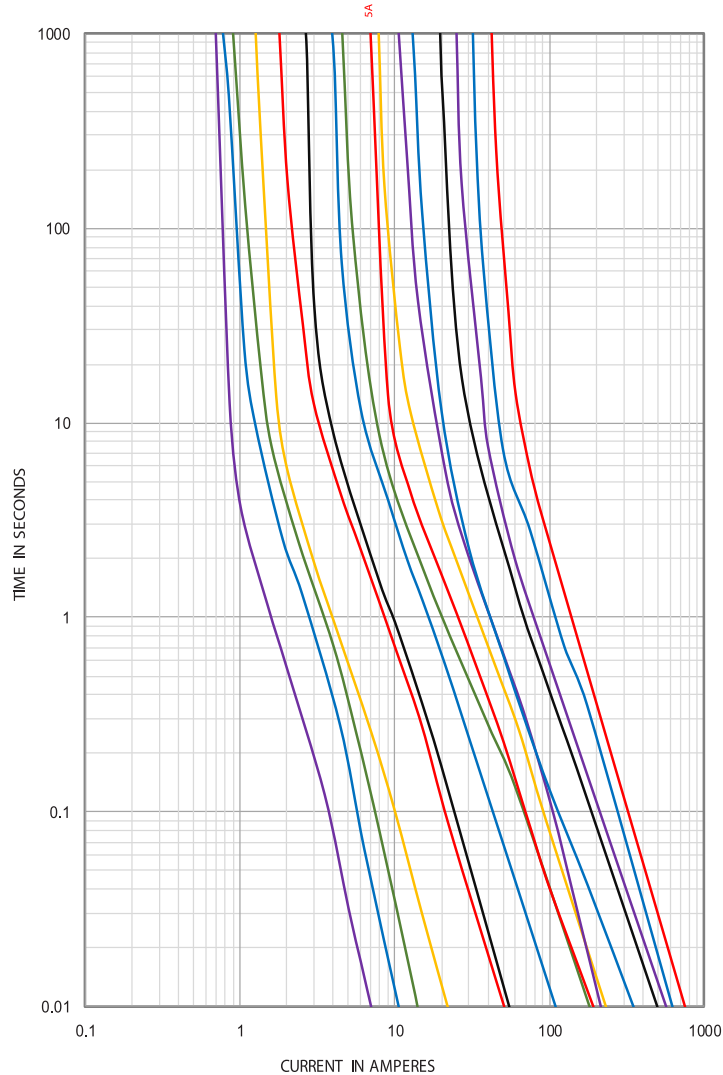
Time vs Current Characteristics: UL248-14			
Rated current	100%	135%	200%
5A	>4h	<1h	5s~60s

Time-Lag Miniature Cartridge Fuse

6mm x 30mm



Average Time Current (I-T) Curves



Electrical characteristics

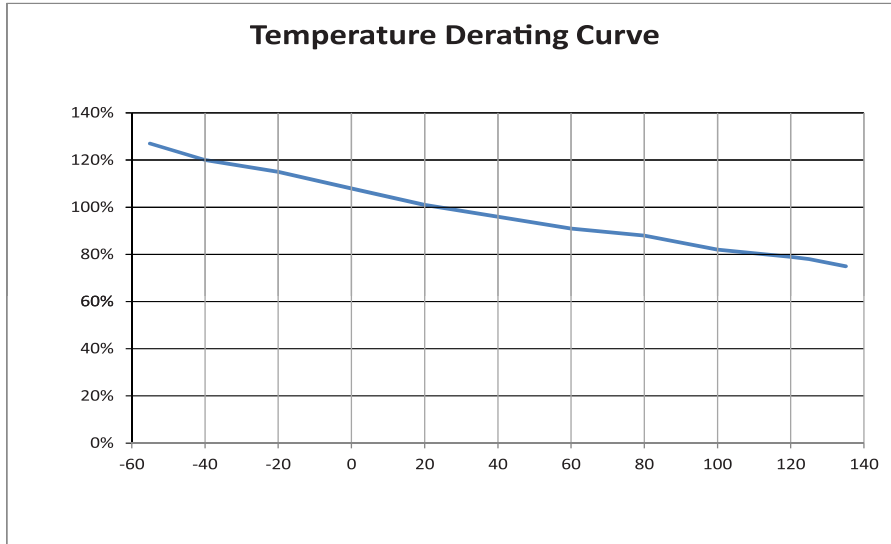
Electrical Characteristics at 25°C									
Part Number	Rated Current	Rated voltage	Typical Cold Resistance (mΩ)	Nominal Melting I ² t(A ² sec)	Breaking Capacity	Approvals			
						TUV	cULus	cURus	PSE
MP007105	5A	250V AC	34	361	10KA/125V AC 200A/250V AC	●	○	●	○

- Note:
1. Permissible continuous operating current is ≤100% at ambient temperature of 23°C (73.4°F)
 2. The PSE certification only by 250V, and the breaking capacity is 100A.
 3. The current values used for calculating I²t should be within the standard range of 8ms ~ 10ms.

Newark.com/multicomp-pro
 Farnell.com/multicomp-pro
 Element14.com/multicomp-pro



Temperature Rerating 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, 5A, 250V AC, 6mm x 30mm	MP007105

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.