

Time-Lag Cartridge Fuses - Axial Leaded 5mm × 20mm

multicomp PRO

**RoHS
Compliant**



Description

The time-lag fuse with high breaking capacity for use with printed circuit boards is used in a large variety of applications. This 5mm × 20mm device is constructed of a ceramic tube with electro-plated brass end caps. The 524 series with 250V AC rating and 1500 Ampere breaking capacity, offers excellent quality and is 100% tested for cold resistance and precise length.

Features

- Miniature fuse with time-lag, high breaking capacity
- 5mm x 20mm physical dimensions
- Ceramic tube, encapsulated design with nickel - plated brass end caps
- Optional axial leads are $\Phi 0.65\text{mm} \times 38\text{mm}$ @ 1A to 5A
- Protection against harmful over-currents in primary and secondary applications.
- Operating Temperature: -55°C to $+125^{\circ}\text{C}$
- Storage Conditions: $+10^{\circ}\text{C}$ to $+60^{\circ}\text{C}$
- Vibration Resistance: 24 cycles at 15 min. each (60068-6)
- Lead-free and Halogen-free
- Designed compliant to IEC 60127-2/V

Electrical Characteristics

Part Number	Rated Current (A)	Max. Voltage	Max. Voltage Drop (mV)	Max. Power Dissipation (W)	Nominal Melting $I^2t(\text{A}^2\text{sec})$	Breaking capacity
MP006245	1	125V AC / 250V AC	350	2.5	3.42	10kA@125V AC 1500A@250V AC 50-60Hz Cos ϕ =0.7-0.8
MP006251	5		100	4	49	

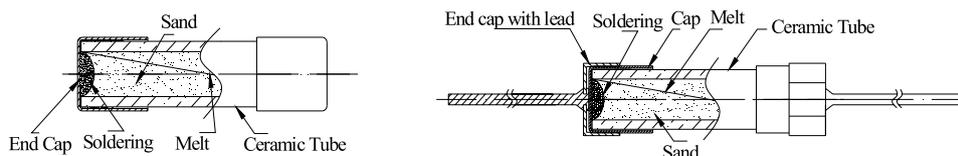
Note: (1) Permissible continuous operating current is $\leq 100\%$ at ambient temperature of 23°C (73.4°F)
(2) The cURus certification by 125V and 250V; the others certification only by 250V.

Time VS Current Characteristics Table

Time vs Current Characteristics: IEC 60127-2/V

Rated Current	150%	210%	275%	400%	1000%
1A	>1h	<30min	750ms~80s	95ms~5s	10ms~150ms
5A	>1h	<30min	750ms~80s	150ms~5s	10ms~150ms

Construction



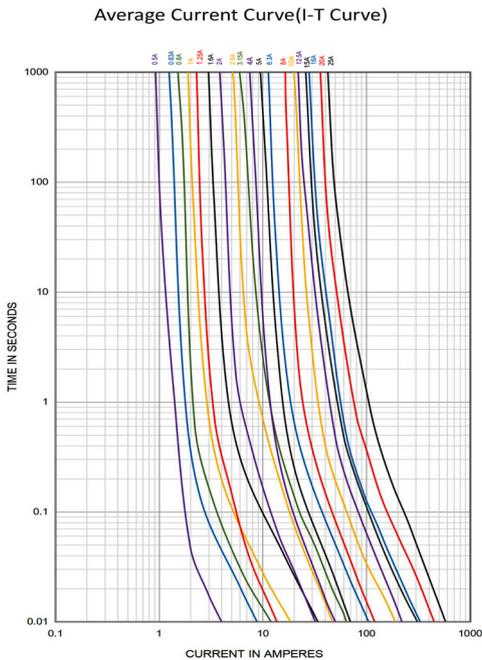
Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

multicomp PRO

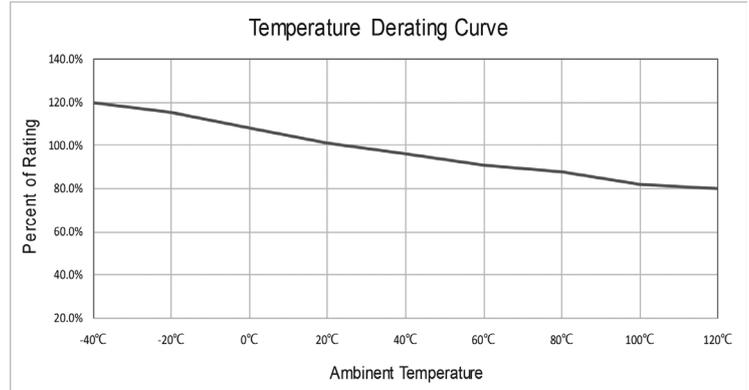
Time-Lag Cartridge Fuses - Axial Leaded 5mm × 20mm



Average Time Current (I-T) Curves

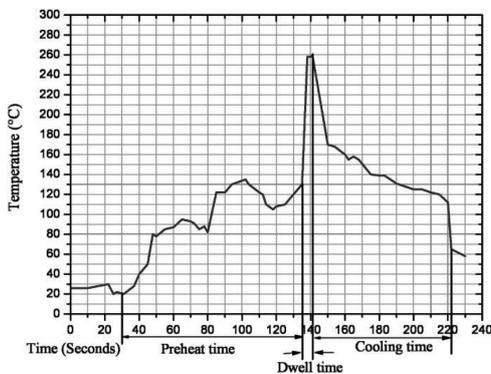


Temperature Re-rating Curve



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

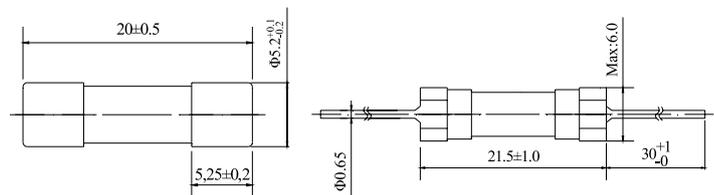
Soldering Parameters



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

Dimensions : Millimetres

Diagram



Part Number Table

Description	Part Number
Cartridge Fuse, Time-Lag, 1A, 250V AC, Axial Leaded	MP006245
Cartridge Fuse, Time-Lag, 5A, 250V AC, Axial Leaded	MP006251

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

