

# Time-Lag Axial Leaded Fuse multicomp<sup>PRO</sup>

**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.

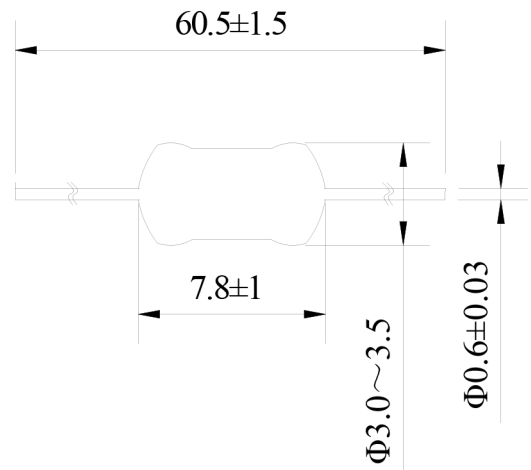
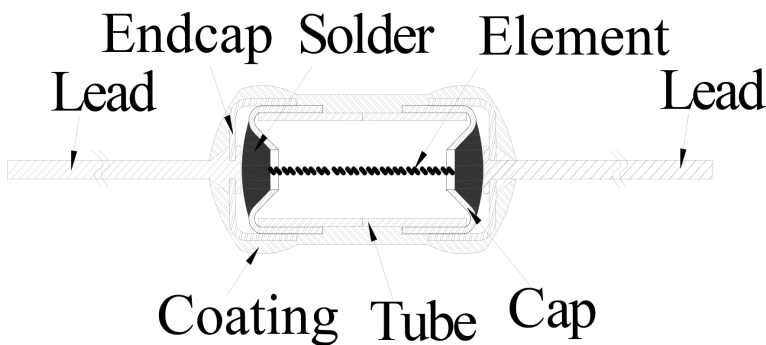


## Features

- Micro fuse with time-lag, low breaking capacity
- $\Phi 2.0\text{mm} \times 7\text{mm}$  physical size
- Ceramic tube, encapsulated with epoxy coating and nicked plated brass end cap
- Optional axial leads are  $0.6\text{mm} \times 26.5\text{mm}$
- 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)

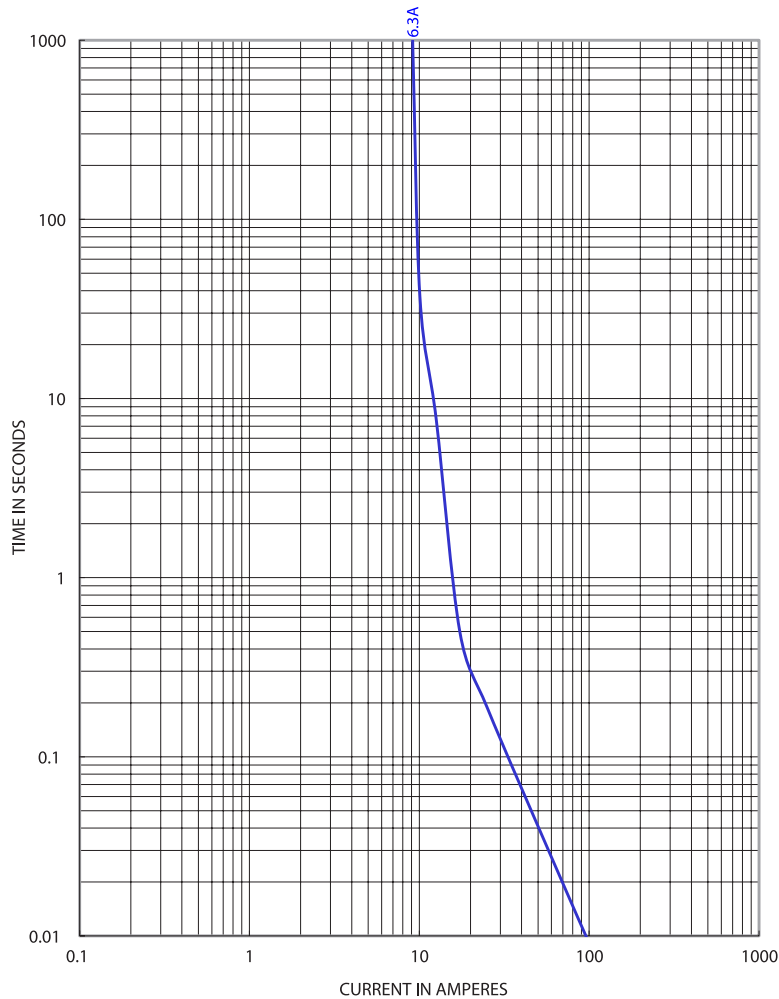
Time vs Current Characteristics: UL248-14				
Rated current	100%	200%	300%	800%
6.3A	>4h	1s to 60s	0.2s to 3s	10ms to 100ms

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

**multicomp<sup>PRO</sup>**

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Average Time Current (I-T) Curves



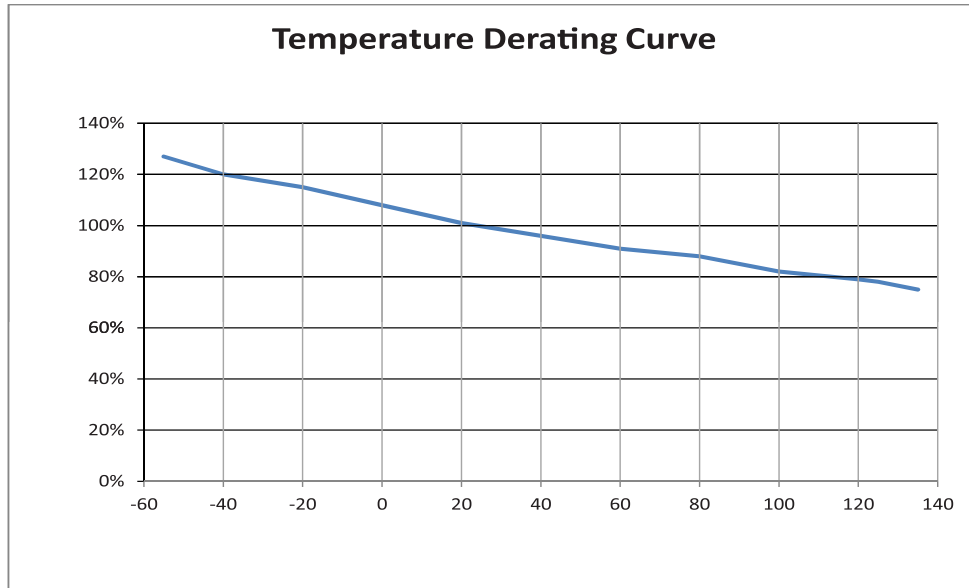
## Electrical characteristics

Electrical Characteristics at 25°C											
Part Number	Rated Current	Rated Voltage	Nominal Melting I <sup>2</sup> T (A <sup>2</sup> sec)	Typical Cold Resistance (mΩ)	Breaking Capacity	Approvals					
						cULus	cURus	TUV	CCC	PSE	KC
MP007126	6.30A	250V AC	91	9.9	35A @ 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 others certification only by 250V.  
 (3) The current values used for calculating I<sup>2</sup>t should be within the standard range of 8ms ~ 10ms.

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## Temperature Derating Curve



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

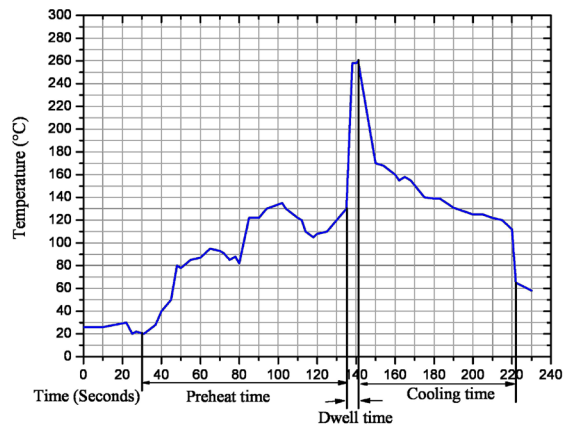
## Soldering Parameters

260°C. ≤5 sec (Wave Soldering)

350°C. ≤3 sec (Hand Soldering)

Soldering Peak:

260°C - 10 sec (IEC 60068-20)



## Part Number Table

Description	Part Number
Time-Lag Axial Leaded Fuse, 6.3A, 250V AC	MP007126

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