

Time-Lag Miniature Cartridge Fuses

6mm × 30mm

multicompPRO

**RoHS
Compliant**



Description

These time-lag 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 6mm × 30mm 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.

Mechanical Specifications

Materials

Tube	: Glass Tube
End Caps	: Nickel plated brass
Axial Leads	: Nickel plated caps
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

Electrical Specifications

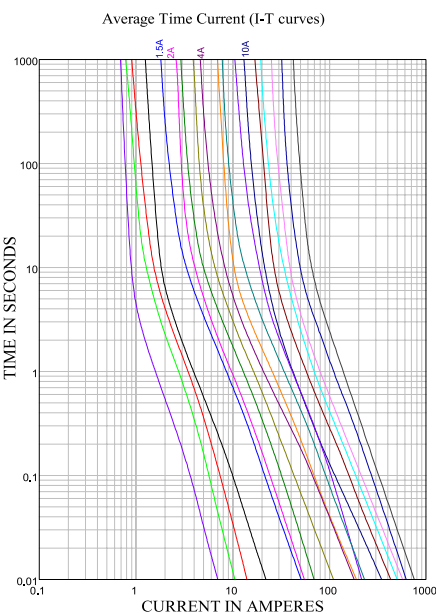
Time vs Current Characteristics Table

(measured with constant current power supply)

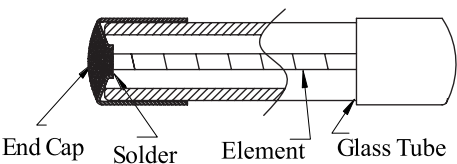
Time vs Current Characteristics: UL248-14			
Rated current	100%	135%	200%
1.5A to 10A	>4h	<1h	5s~60s
10A		-	<120s

Time vs Current Characteristics: UL248-14			
Rated current	275%	400%	1000%
1.5A to 10A	-	-	-
10A	600ms~10s	150ms~3s	20ms~300ms

Average Time Current (I-T) Curves



Mechanical Specifications



Newark.com/multicomp-pro
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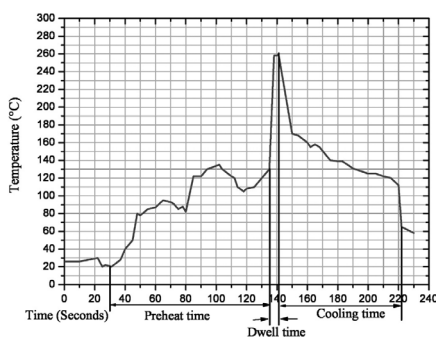
Electrical characteristics at 25°C

Part Number	Amp	Rated Current	Nominal Melting $I^2t(A^2sec)$	Typical Cold Resistance (mΩ)	Breaking Capacity
MP007109	1150	1.5A	26.01	210	10KA@125V AC 100A@250V AC
MP007106	1200	2A	30.25	124.4	
MP007107	1400	4A	324	37	10KA@125V AC 200A@250V AC
MP007108	2100	10A	1190	8.3	400A@125VAC 200A@250VAC

Note:

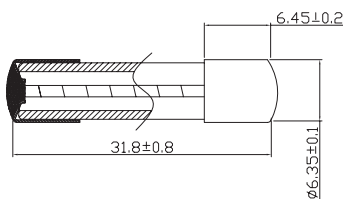
1. Permissible continuous operating current is $\leq 100\%$ at ambient temperature of 23°C (73.4°F)
2. The current values used for calculating I^2T should be within the standard range of 8ms ~ 10ms.

Soldering Parameters



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

Diagram



Part Number Table

Description	Part Number
Time-Lag Miniature Cartridge Fuse, 1.5A, 250V AC, 6mm x 30mm	MP007109
Time-Lag Miniature Cartridge Fuse, 2A, 250V AC, 6mm x 30mm	MP007106
Time-Lag Miniature Cartridge Fuse, 4A, 250V AC, 6mm x 30mm	MP007107
Time-Lag Miniature Cartridge Fuse, 10A, 250V AC, 6mm x 30mm	MP007108

Dimensions : Millimetres

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