



Description

The brick fuse for the small size and good electrical performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics during use and also makes our brick fuses more heat and shock tolerant than typical brick fuses.

**RoHS
Compliant**

Applications

Used in notebook PC, telecom system, LCD/PDP TV, wireless goods, LCD monitor, white goods, LCD/PDP panel, game console, power supply, net working and other electronics products.

Features

- Rapid interruption of excessive current
- Compatible with reflow and wave soldering
- Ceramic body and silver plated copper terminal
- Excellent environmental integrity
- One time positive disconnect
- Lead-free and Halogen-free

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 10-60Hz at 0.75mm amplitude 60-2000Hz at 10g acceleration

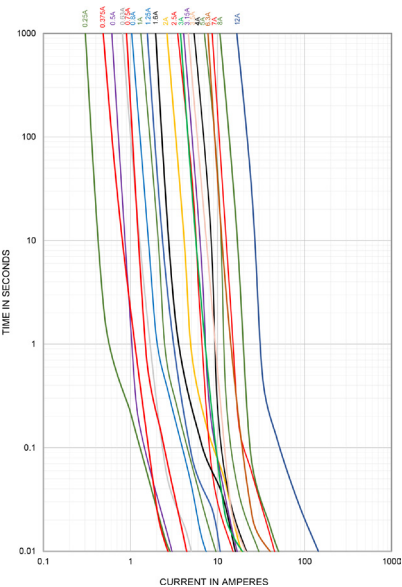
Electrical Characteristics

Time vs Current Characteristics Table

(measured with constant current power supply)

Time vs Current Characteristics		
Rated current	100%	200%
0.375A to 12A	>4h	<120s

Average Time Current (I-T) Curves



Electrical Characteristics at 25°C

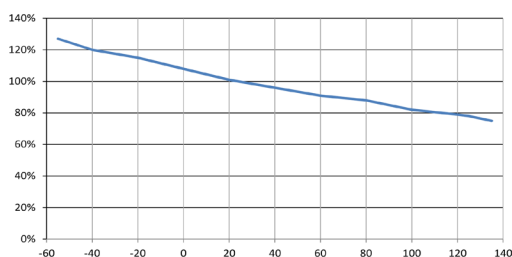
Amp Code	Rated Current	Rated Voltage DC	Typical Voltage Drop (mV)	Breaking Capacity	Typical Melting I ² T (A ² s)	Typ. Cold Resistance (mΩ)
0375	375mA	125V AC 250V AC 125V DC	700	100A@125V AC 100A@250V AC 50A@125V DC	0.073	980
0400	400mA		700		0.06	966.2
0500	500mA		600		0.055	602
0630	630mA		500		0.22	396
0750	750mA		500		0.168	350
0800	800mA		400		0.512	306
1100	1A		400		0.87	246
1125	1.25A		300		0.83	165.9
1160	1.6A		300		1.69	124
1200	2A		300		3.48	88.5
1250	2.5A		300		2.06	23.3
1300	3A		300		2.16	21.6
1315	3.15A		300		2.48	20.6
1350	3.5A		300		4.5	19.5
1400	4A		300		3.84	15.4
1500	5A		300		7.5	11.8
1630	6.3A		300		9.6	9
1700	7A		300		12.74	8.24
1800	8A		300		21.6	6.4
2120	12A		300		79	5

Note:

- (1) Permissible continuous operating current is ≤100% at ambient temperature of 23°C (73.4°F)
- (2) The current values used for calculating I²T should be within the standard 10In.
- (3) The TUV certification only for 250VAC and 125VDC; the CQC, KC certification only for 250V; the cURus certification for all voltage.
- (4) 250mA No sand filling

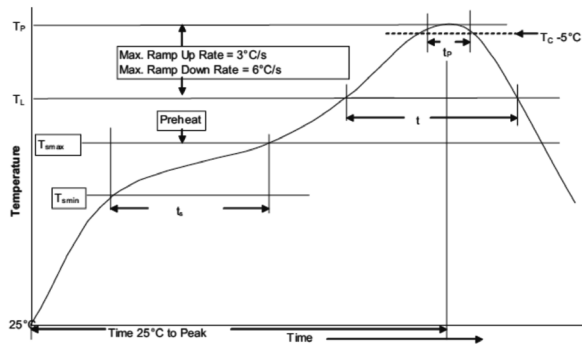
Temperature Re-rating Curve

Temperature Derating Curve



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

Soldering Parameters



1. Infrared Reflow:

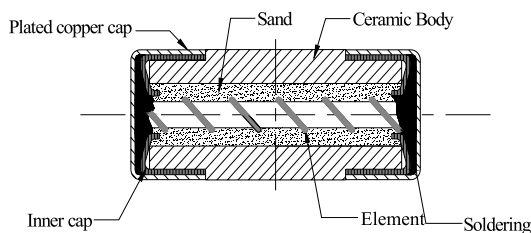
Temperature: 260°C
Time: 30sec Max.
Recommend reflow profile

2. Wave Soldering:

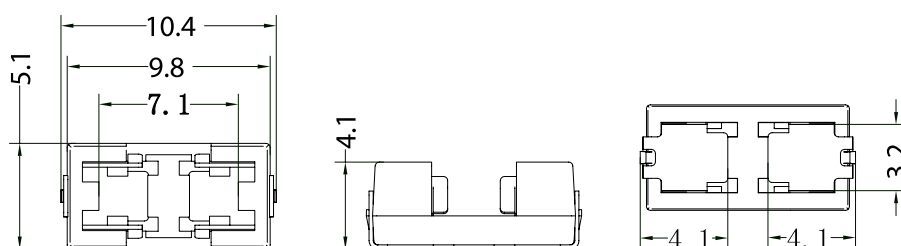
Reservoir Temperature: 260°C
Time in Reservoir: 10sec Max.

Profile Feature		Pb-Free Assembly
Average Ramp-UP Rate(Tsmax to Tp)		3°C/s Max.
Preheat	Temperature Min (Ts min)	150°C
	Temperature Max (Ts max)	200°C
	Time (Tsmin to Ts max)	60sec to 120sec
Liquidous temperature(TL)		217°C
Time at liquidous(tL)		60 to 150S
Peak package body temperature (Tp)		260°C
Time (tp) within 5°C of the specified classification temperature (Tc)		30S
Average ramp-down rate (Tp to Tsmax)		6°C/s Max.
Time (25°C to Peak Temperature)		8 Minutes Max.

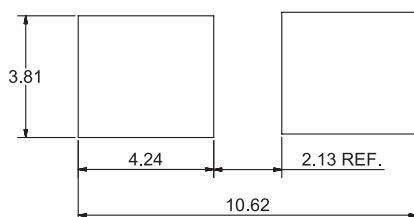
Mechanical Specifications



Diagram

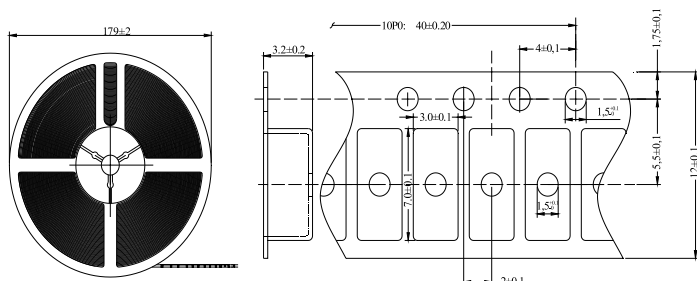


Recommended Land Pattern



Dimensions : Millimetres

Packing Information



Part Number Table

Description	Part Number
Brick SMD Fuse, Time-Lag, 0.375A, 2410	MCCFB2410TTT/375
Brick SMD Fuse, Time-Lag, 0.5A, 2410	MCCFB2410TTT/500
Brick SMD Fuse, Time-Lag, 0.75A, 2410	MCCFB2410TTT/C/750
Brick SMD Fuse, Time-Lag, 0.8A, 2410	MCCFB2410TTT/800
Brick SMD Fuse, Time-Lag, 0.1A, 2410	MCCFB2410TTT/1
Brick SMD Fuse, Time-Lag, 1A, 2410	MP001614
Brick SMD Fuse, Time-Lag, 1A, 2410	MCCFB2410TTT/C/1
Brick SMD Fuse, Time-Lag, 1.5A, 2410	MCCFB2410TTT/C/1.5
Brick SMD Fuse, Time-Lag, 2A, 2410	MCCFB2410TTT/C/2
Brick SMD Fuse, Time-Lag, 2A, 2410	MCCFB2410TTT/2
Brick SMD Fuse, Time-Lag, 2.5A, 2410	MCCFB2410TTT/2.5
Brick SMD Fuse, Time-Lag, 2.5A, 2410	MCCFB2410TTT/C/2.5
Brick SMD Fuse, Time-Lag, 3A, 2410	MCCFB2410TTT/C/3
Brick SMD Fuse, Time-Lag, 3A, 2410	MCCFB2410TTT/3
Brick SMD Fuse, Time-Lag, 3.5A, 2410	MCCFB2410TTT/3.5
Brick SMD Fuse, Time-Lag, 3.5A, 2410	MCCFB2410TTT/C/3.5
Brick SMD Fuse, Time-Lag, 4A, 2410	MCCFB2410TTT/C/4
Brick SMD Fuse, Time-Lag, 4A, 2410	MCCFB2410TTT/4
Brick SMD Fuse, Time-Lag, 5A, 2410	MCCFB2410TTT/5
Brick SMD Fuse, Time-Lag, 5A, 2410	MCCFB2410TTT/C/5
Brick SMD Fuse, Time-Lag, 7A, 2410	MCCFB2410TTT/7
Brick SMD Fuse, Time-Lag, 8A, 2410	MCCFB2410TTT/8
Brick SMD Fuse, Time-Lag, 12A, 2410	MCCFB2410TTT/12

Dimensions : Millimetres

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