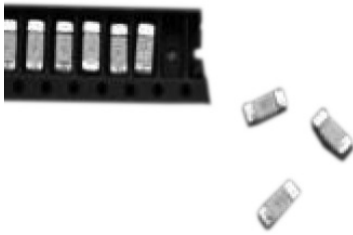


**RoHS
Compliant**



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.

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 |

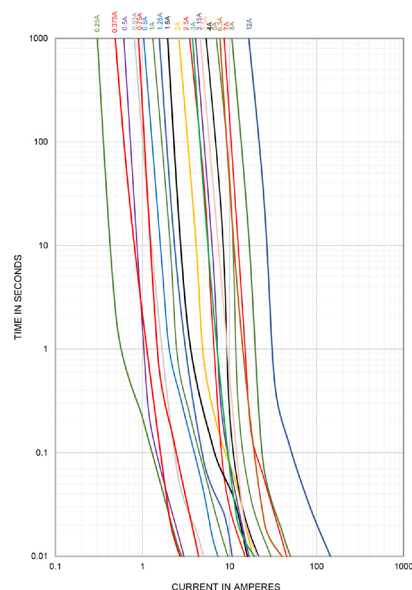
Electrical Characteristics

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

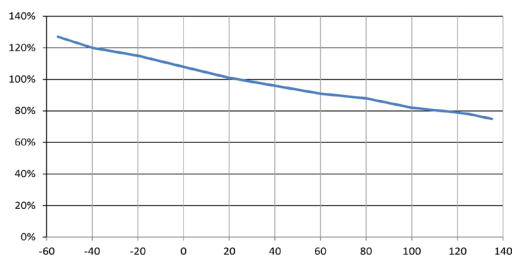
| Amp Code | Rated Current | Rated Voltage DC | Typical Voltage Drop (mV) | Breaking Capacity | Typical Melting I ² T (A ² s) | Typ. Cold Resistance (mΩ) |
|----------|---------------|-------------------------------|---------------------------|---|---|---------------------------|
| 0375 | 375mA | 125V 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

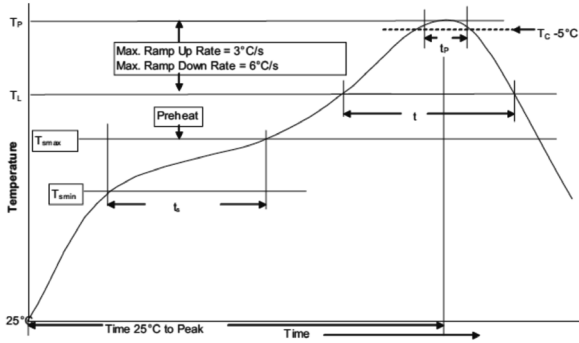
Temperature Re-rating Curve

Temperature Derating Curve



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

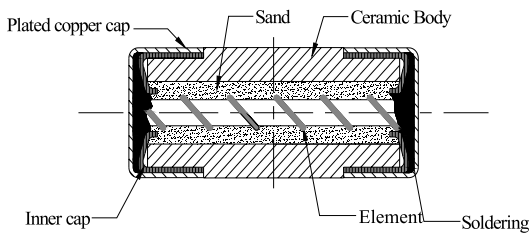
Soldering Parameters



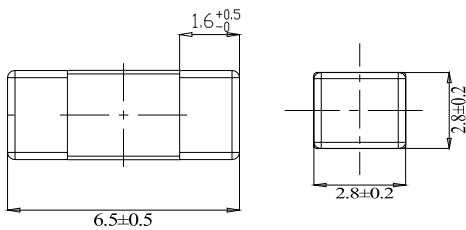
| Profile Feature | | Pb-Free Assembly |
|---|--------------------------|------------------|
| Average Ramp-UP Rate(Tsmax to Tp) | | 3°C/s Max. |
| Preheat | Temperature Min (Ts min) | 150°C |
| | Temperature Max (Ts max) | 200°C |
| | Time (Tsm in to Ts max) | 60sec to 120sec |
| Liquidous temperature(TL) | | 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 Tsm ax) | | 6°C/s Max. |
| Time (25°C to Peak Temperature) | | 8 Minutes Max. |

- Infrared Reflow:**
 Temperature: 260°C
 Time: 30sec Max.
 Recommend reflow profile
- Wave Soldering:**
 Reservoir Temperature: 260°C
 Time in Reservoir: 10sec Max.

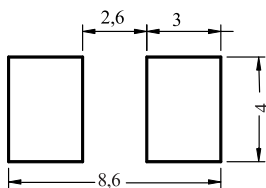
Mechanical Specifications



Diagram

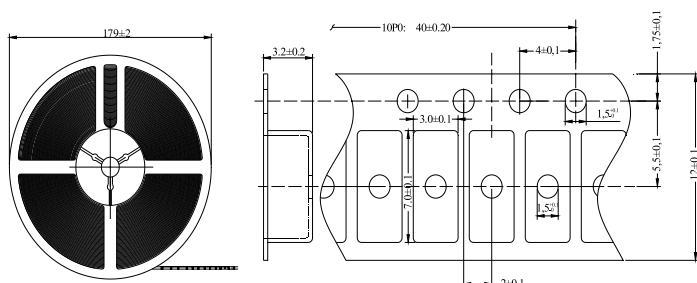


Recommended Land Pattern



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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