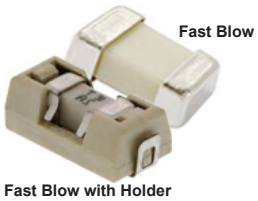
Surface Mount Fuses
2410

multicomp PRO



Fast Blow with Holder

RoHS Compliant

Description

The SMD 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 subminiature 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
- Designed to UL 248-14

Specifications

Operating Temperature	: -55°C to +150°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

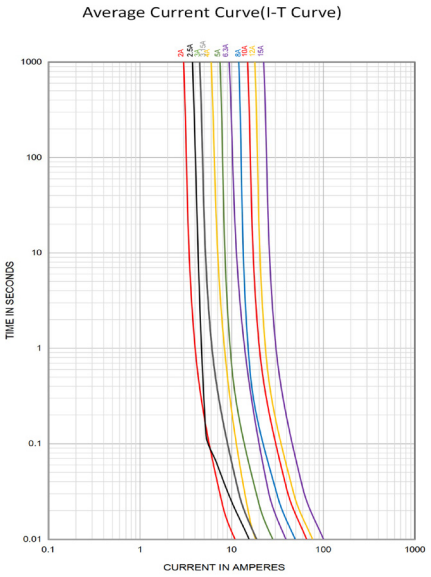
Electrical Characteristics

Time vs Current Characteristics Table

(measured with constant current power supply)

Time vs Current Characteristics		
Rated current	**100%**	**200%**
2A to 15A	>4h	≤5s

Average Time Current (I-T) Curves



Newark.com/multicomp-pro
Farnell.com/multicomp-pro
sg.element14.com/b/multicomp-pro

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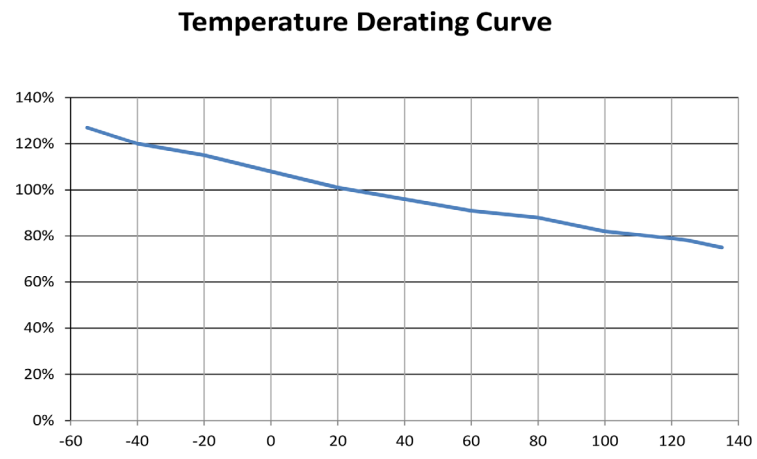
Electrical Characteristics at 25°C

Amp Code	Rated Current	Rated Voltage DC	Typical Voltage Drop (mV)	Breaking Capacity	Typical Melting I²T (A²s)	Cold Resistance (mΩ)
1200	2A	125V AC 125V DC	50A @ 125V AC 300A @ 125V DC	110	0.80	17.64~32.76
1250	2.5A				2.06	14.00~26.00
1300	3A				1.95	12.46~23.14
1315	3.15A				3	12.47~23.15
1400	4A				4	9.38~17.42
1500	5A				7.5	6.72~12.48
1630	6.3A		63A @ 125V AC 300A @ 125V DC		13	5.32~9.88
1700	7A		70A @ 125V AC 300A @ 125V DC		16	5.11~9.49
1800	8A		80A @ 125V AC 300A @ 125V DC		20	4.45~8.26
2100	10A		100A @ 125V AC 300A @ 125V DC		35	3.43~6.37
2120	12A		50A@125V AC 50A@125V DC		40	2.87~5.33
2150	15A				55	2.31~4.29

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.

Temperature Re-rating Curve



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

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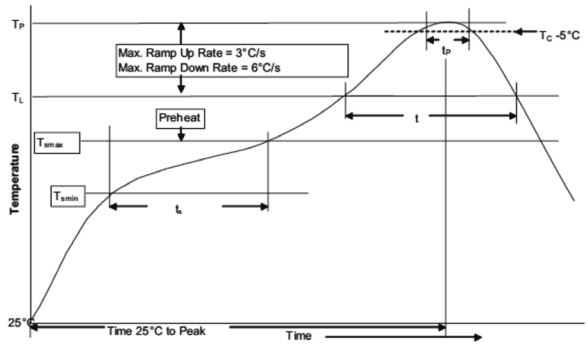
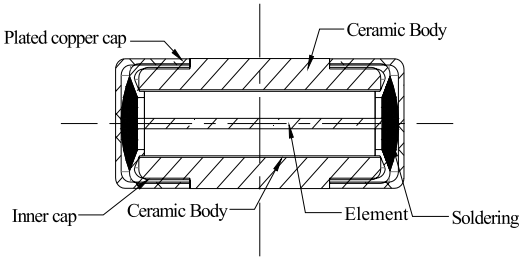
Soldering Parameters



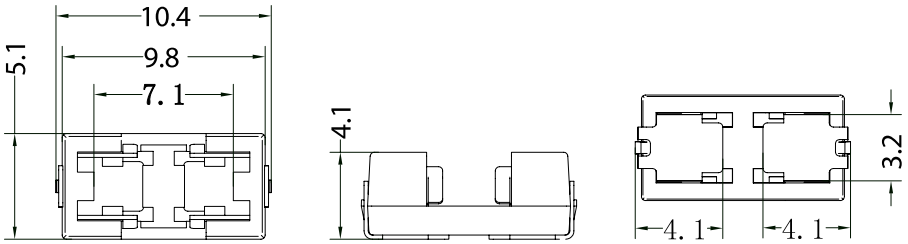
Profile Feature		Pb-Free Assembly
Average Ramp-UP Rate(Tsmax to Tp)		3°C/s Max.
Preheat	Temperature Min (Ts min)	150°C
	Temperature Max (Ts max)	200°C
	Time (Tsmin to Ts max)	60sec to 120sec
Liquidous temperature(TL) Time at liquidous(tL)		217°C 60 to 150S
Peak package body temperature (Tp)		260°C
Time (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.

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

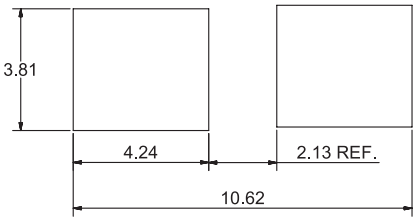
Mechanical Specifications



Diagram



Recommended Land Pattern



Dimensions : Millimetres

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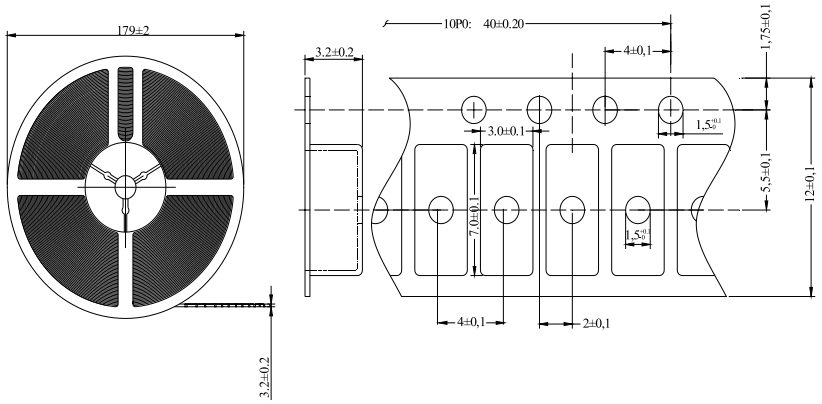
Packing Information



Part Number Table

Description	Part Number
SMD Fuse, 2410, Fast Blow, 2A	MCCFB2410TFF/2
SMD Fuse, 2410, Fast Blow, 2.5A	MCCFB2410TFF/2.5
SMD Fuse with Holder, 2410, Fast Blow, 2.5A	MCCFB2410TFF/C/2.5
SMD Fuse with Holder, 2410, Fast Blow, 3A	MCCFB2410TFF/C/3
SMD Fuse, 2410, Fast Blow, 3A	MCCFB2410TFF/3
SMD Fuse with Holder, 2410, Fast Blow, 3.5A	MCCFB2410TFF/C/3.5
SMD Fuse, 2410, Fast Blow, 4A	MCCFB2410TFF/4
SMD Fuse with Holder, 2410, Fast Blow, 4A	MCCFB2410TFF/C/4
SMD Fuse, 2410, Fast Blow, 5A	MCCFB2410TFF/5
SMD Fuse with Holder, 2410, Fast Blow, 5A	MCCFB2410TFF/C/5
SMD Fuse with Holder, 2410, Fast Blow, 6.3A	MCCFB2410TFF/C/6.3
SMD Fuse, 2410, Fast Blow, 6.3A	MCCFB2410TFF/6.3
SMD Fuse, 2410, Fast Blow, 7A	MCCFB2410TFF/7
SMD Fuse, 2410, Fast Blow, 8A	MCCFB2410TFF/8
SMD Fuse with Holder, 2410, Fast Blow, 8A	MCCFB2410TFF/C/8
SMD Fuse with Holder, 2410, Fast Blow, 10A	MCCFB2410TFF/C/10
SMD Fuse, 2410, Fast Blow, 10A	MCCFB2410TFF/10
SMD Fuse, 2410, Fast Blow, 12A	MCCFB2410TFF/12
SMD Fuse, 2410, Fast Blow, 15A	MCCFB2410TFF/15

Dimensions : Millimetres