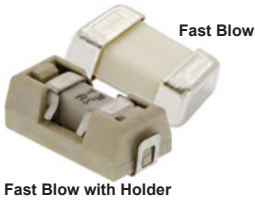


Surface Mount Fuses 2410

multicomp PRO

**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

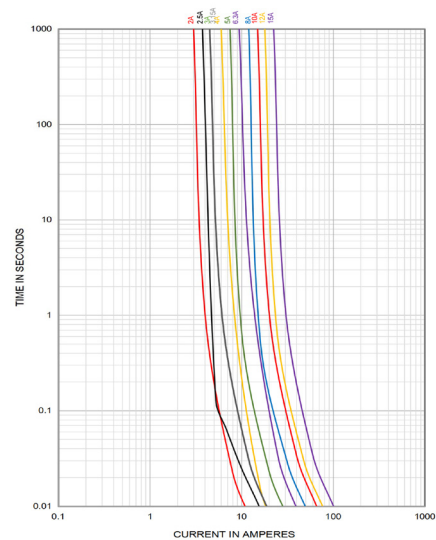
Time vs Current Characteristics Table

(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

Average Current Curve(I-T Curve)



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

multicomp PRO

Surface Mount Fuses 2410

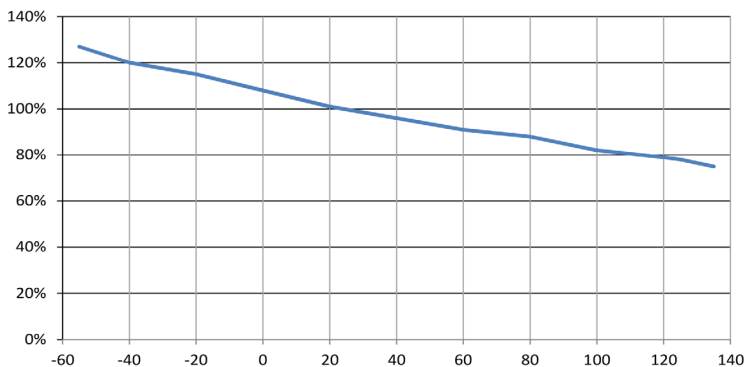
Electrical Characteristics at 25°C

Amp Code	Rated Current	Rated Voltage DC	Typical Voltage Drop (mV)	Breaking Capacity	Typical Melting I ² T (A ² s)	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				50A@125V AC 50A@125V DC	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

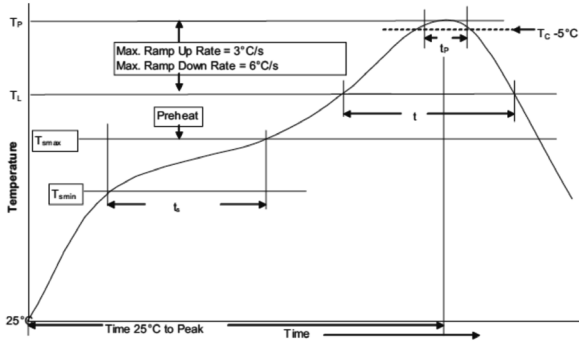
Temperature Derating Curve



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

Surface Mount Fuses 2410

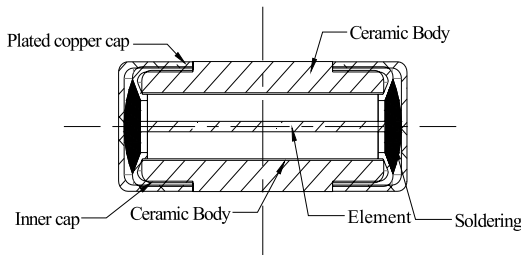
Soldering Parameters



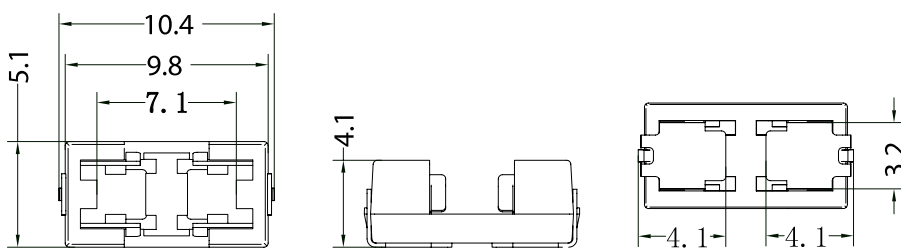
Profile Feature		Pb-Free Assembly
Average Ramp-UP Rate(Tsmax to Tp)		3°C/s Max.
Preheat	Temperature Min (Ts min)	150°C
	Temperature Max (Ts max)	200°C
	Time (Tsm in to Ts max)	60sec to 120sec
Liquidous temperature(TL)		217°C
Time at liquidous(tL)		60 to 150S
Peak package body temperature (Tp)		260°C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

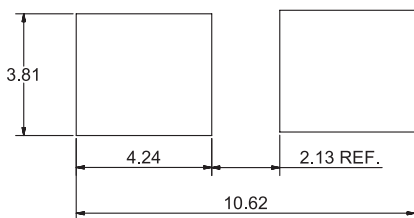
Mechanical Specifications



Diagram



Recommended Land Pattern

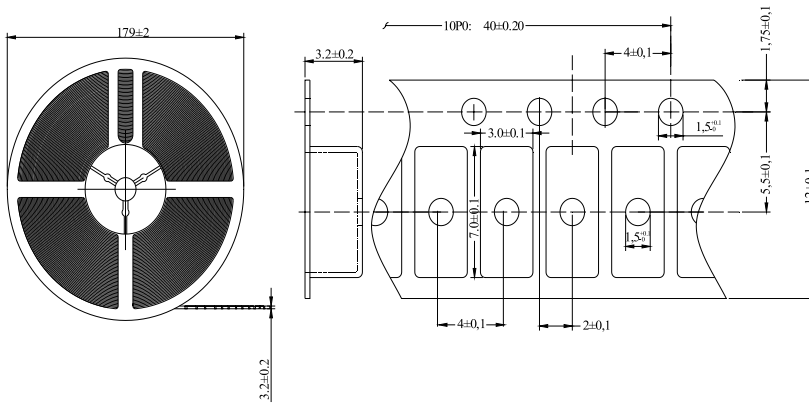


Dimensions : Millimetres

Surface Mount Fuses 2410

multicomp PRO

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

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

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

multicomp PRO