



SinglFuse™ SF-2410HI-T Series Features

- Single blow fuse for overcurrent protection
- EIA 2410 (6125 metric) footprint
- Ceramic tube design for high inrush fusing speed applications
- UL 248-14 listed
- Surface mount packaging for automated assembly
- RoHS compliant* and halogen free**

SF-2410HI-T Series – High Inrush SMD Fuses

Electrical Characteristics

Model	Rated Current (A)	Fusing Time	Resistance (Ω) Typ.***	Rated Voltage	Interrupting Rating	Typical I ² t (A ² s)****	Certifications
							cUL
							E198545
SF-2410HI0375T-2	0.375	Open within 1-60 sec. at 200 % rated current	0.6208	125 VAC	50 A @ 125 VAC 50 A @ 125 VDC 300 A @ 32 VDC	0.4147	✓
SF-2410HI050T-2	0.5		0.3462			0.495	✓
SF-2410HI075T-2	0.75		0.1666			1.2632	✓
SF-2410HI100T-2	1		0.1079			1.9933	✓
SF-2410HI150T-2	1.5		0.057			2.82	✓
SF-2410HI200T-2	2		0.0509			7.488	✓
SF-2410HI250T-2	2.5		0.0317			16.771	✓
SF-2410HI300T-2	3		0.0228			24.99	✓
SF-2410HI350T-2	3.5		0.0196			24.908	✓
SF-2410HI400T-2	4		0.015			27.056	✓
SF-2410HI500T-2	5		0.0112			50.308	✓
SF-2410HI700T-2	7		0.0083			100.06	✓

*** Resistance value measured with ≤10 % rated current at 25 °C ambient. Tolerance ±30 %.

**** Melting I²t calculated at 10 times rated current.

Environmental Characteristics

Operating Temperature.....-55 °C to +125 °C
 Storage Conditions
 Temperature+15 °C to +30 °C
 Humidity.....20 % to 70 %
 Shelf Life.....2 years from manufacturing date
 Moisture Sensitivity Level1
 ESD Classification (HBM).....Class 6

Agency Recognition

UL File Number E198545



WARNING Cancer and Reproductive Harm

www.P65Warnings.ca.gov

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

"SinglFuse" is a trademark of Bourns, Inc.

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

SinglFuse™ SF-2410HI-T Series Applications

- Notebooks
- LCD Monitors
- LCD Backlight Inverters
- POE, POE+
- PC Servers
- Power Supplies
- Battery Protection
- White Goods

SF-2410HI-T Series – High Inrush SMD Fuses

BOURNS®

Reliability Testing

No.	Test	Test Condition	Requirement	Test Reference
1	Solderability	Temperature setup: 235 ±5 °C Time setup: 10 ±1 sec.	After test terminal electrode wetting area must be greater than 95 %	IEC 60068-2-58
2	Resistance to soldering heat	Temperature setup: 235 ±5 °C Time setup: 30 ± 5 sec.	DCR change ≤ ±15 %	IEC 60068-2-58
3	Thermal shock	Temperature setup: 25 °C ~ -65 °C ~ 25 °C ~ 125 °C Time setup: -65 °C (30 min) ~ 25 °C (5 min) ~ 125 °C (30 min) ~ 25 °C (5 min), 5 cycles	DCR change ≤ ±15 % No mechanical damage	MIL-STD-202G Method 107G Test Condition B
4	Humidity unload	Heat (85 ±0.5 °C) High Humidity (85 ±1 % RH) 240 hours	DCR change ≤ ±15 % No mechanical damage	MIL-STD-202G Method 103B Test Condition A
5	Salt spray	Salt spray concentration: 5 ±1 % Test liquid temperature: 35 ±0.5 °C 96 hours	DCR change ≤ ±15 % No mechanical damage	MIL-STD-202G Method 101E Test Condition A
6	Bending	The board shall be bent by 1 mm at a rate of 1 mm/sec.	DCR change ≤ ±15 %	IEC 60127-4
7	Vibration	Frequency setup: 10 ~ 55 ~ 10 Hz Time setup: 1 Minute/cycle (X-Y-Z, 120 cycles, 6 hours)	DCR change ≤ ±15 % No mechanical damage	MIL-STD-202G Method 201A

Typical Part Marking

Represents total content. Layout may vary.



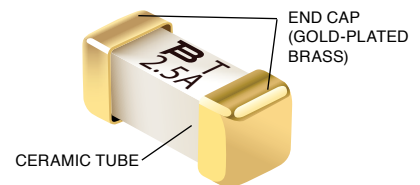
Rated Current	Part Marking
375 mA	375 mA
500 mA	500 mA
750 mA	750 mA
1 A	1 A
1.5 A	1.5 A
2 A	2 A
2.5 A	2.5 A
3 A	3 A
3.5 A	3.5 A
4 A	4 A
5 A	5 A
7 A	7 A

How to Order

SF - 2410 HI 0375 T - 2

SinglFuse™ _____
 Product Designator _____
 SMD Footprint _____
 2410 = EIA 2410 (6125 metric)
 Fuse Blow Type _____
 HI = High inrush
 Rated Current _____
 0375 ~ 700 (375 mA ~ 7 A)
 Structure Type _____
 T = Ceramic Tube
 Packaging Type _____
 - 2 = Tape & Reel

Construction



Packaging Quantity

1,000 pieces per 7-inch reel

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.