SingIFuse™ SF-2410FP-T Series Features

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

SF-2410FP-T Series – Fast Acting Precision SMD Fuses

Electrical Characteristics

Model	Rated Current (A)	Fusing Time	Resistance (Ω) Typ.***	Rated Voltage	Interrupting Rating	Typical I^2t (A^2s) ****	Certifications
							cUL
							E198545
SF-2410FP0062T-2	0.062	Open within 5 sec. at 200 % rated current	6.653	125 VAC	50 A @ 125 VAC 50 A @ 125 VDC 300 A @ 32 VDC	0.0012	✓
SF-2410FP008T-2	0.08		4.974			0.0017	✓
SF-2410FP010T-2	0.1		3.014			0.0043	✓
SF-2410FP0125T-2	0.125		2.044			0.0094	✓
SF-2410FP016T-2	0.16		0.8655			0.0116	✓
SF-2410FP020T-2	0.2		1.8535			0.0517	✓
SF-2410FP025T-2	0.25		1.119			0.0528	✓
SF-2410FP0315T-2	0.315		0.843			0.1365	✓
SF-2410FP0375T-2	0.375		0.732			0.1502	✓
SF-2410FP040T-2	0.4		0.4995			0.2149	✓
SF-2410FP050T-2	0.5		0.476			0.358	✓
SF-2410FP075T-2	0.75		0.2065			0.3761	✓
SF-2410FP100T-2	1		0.158			0.4143	✓
SF-2410FP150T-2	1.5		0.114			1.0606	✓
SF-2410FP200T-2	2		0.0605			1.08	✓
SF-2410FP250T-2	2.5		0.044			1.1471	✓
SF-2410FP300T-2	3		0.036			1.548	✓
SF-2410FP315T-2	3.15		0.033			2.6485	✓
SF-2410FP350T-2	3.5		0.029			2.695	✓
SF-2410FP400T-2	4		0.021			3.9744	✓
SF-2410FP500T-2	5		0.013			6.175	✓
SF-2410FP700T-2	7		0.01			9.016	✓
SF-2410FP800T-2	8		0.0085			16.758	✓
SF-2410FP1000T-2	10		0.006			24.42	✓

*** Resistance value measured with ≤10 % rated current at 25 °C ambient. Tolerance ±30 %.
**** Melting I^2t calculated at 10 times rated current.

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.

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SingIFuse™ SF-2410FP-T Series Applications

- Notebooks
- LCD Monitors
- LCD Backlight Inverters
- POE, POE+
- PC Servers
- Power Supplies
- Game Consoles
- White Goods

SF-2410FP-T Series – Fast Acting Precision SMD Fuses

BOURNS®

Reliability Testing

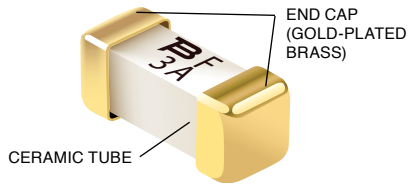
No.	Test	Test Condition	Requirement	Test Reference
1	Solderability	Temperature setup: 235 ±5 °C Time setup: 10 ±1 sec.	After test terminal electrode wetting area must be greater than 95 %	IEC 60068-2-58
2	Resistance to soldering heat	Temperature setup: 235 ±5 °C Time setup: 30 ± 5 sec.	DCR change ≤ ±15 %	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

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 Level 1
ESD Classification (HBM) ..... Class 6

Construction



Agency Recognition

UL File Number E198545

Packaging Quantity

1,000 pieces per 7-inch reel

How to Order

SF - 2410 FP 0062 T - 2

- SingIFuse™ Product Designator
- SMD Footprint
  2410 = EIA 2410 (6125 metric)
- Fuse Blow Type
  FP = Fast Acting Precision
- Rated Current
  0062 ~ 1000 (62 mA ~ 10 A)
- Structure Type
  T = Ceramic Tube
- Packaging Type
  - 2 = Tape & Reel

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