

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	SF-0402FR250-2
Manufacturer:	Bourns Inc.
Package:	Tape & Reel (TR), Cut Tape (CT), Digi-Reel®
Availability:	Please confirm with sales

Product Page:

<https://antrexco.com/product/details/bourns-inc/sf-0402fr250-2.html>

Request a Quote:

[Submit RFQ for this part](#)



Scan for product page

Contact Information

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Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.



SinglFuse™ SF-0402FR Series Features

- EIA 0402 (1005 metric) footprint
- Small chip size with high current rating up to 5 A
- High interrupting capability up to 100 A @ 32 VDC
- UL 248-14 compliant
- RoHS compliant* and halogen free**

SF-0402FR Series - SMD Fuses

Clearing Time Characteristics for Series

% of Current Rating	Clearing Time at 25 °C	
	Min.	Max.
100 %	4 hours	—
200 %	—	5 seconds

Additional Information

Click these links for more information:



Electrical Characteristics

Model	Rated Current (A)	Resistance (Ω) Typ.***	Rated Voltage	Interrupting Rating	Typical I ² t (A ² s) ****	Agency Recognition
						cUL: E198545
SF-0402FR063-2	0.63	0.450	32 VDC	100 A @ 32 VDC	0.0079	✓
SF-0402FR100-2	1.0	0.150			0.0197	✓
SF-0402FR150-2	1.5	0.120			0.0443	✓
SF-0402FR200-2	2.0	0.052			0.0518	✓
SF-0402FR250-2	2.5	0.040			0.0688	✓
SF-0402FR300-2	3.0	0.033			0.1616	✓
SF-0402FR315-2	3.15	0.030			0.1273	✓
SF-0402FR350-2	3.5	0.025			0.2083	✓
SF-0402FR400-2	4.0	0.020			0.3072	✓
SF-0402FR500-2	5.0	0.016			0.7218	✓

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

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

Environmental Characteristics

Operating Temperature.....	-20 °C to +105 °C
Storage Conditions	
Temperature	+5 °C to +35 °C
Humidity.....	40 % to 75 %
Moisture Sensitivity Level	1
ESD Classification (HBM).....	Class 6



CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant.
See 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.

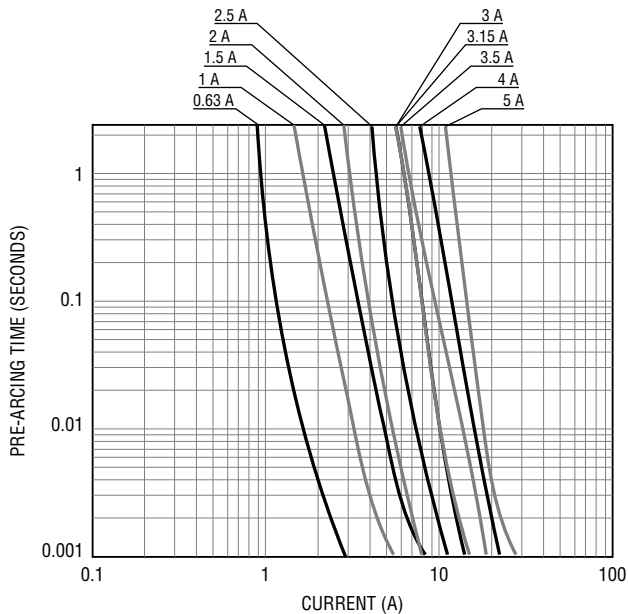
Users should verify actual device performance in their specific applications.

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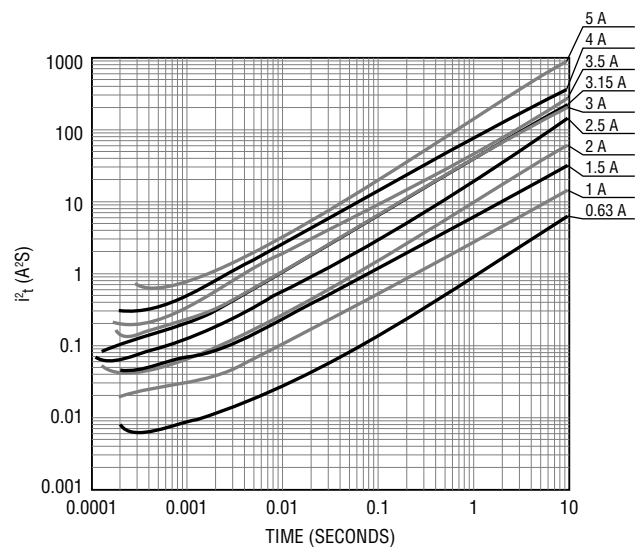
SF-0402FR Series – SMD Fuses

BOURNS®

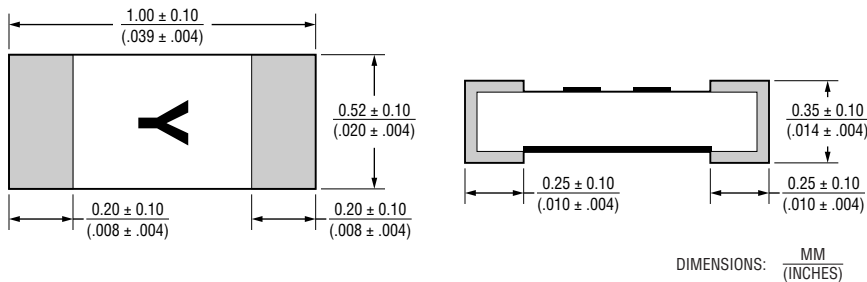
Average Pre-Arcing Time vs. Current Curves



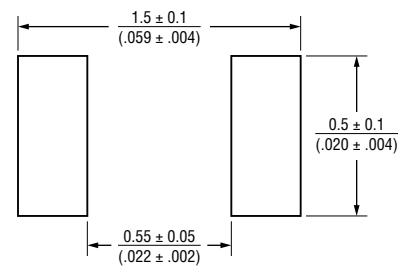
Average I^2t vs. t Curves



Product Dimensions



Recommended Pad Layout



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