

Features

- Multiple configurations: parallel, series, dual-inductor and transformer
- Magnetically shielded, low radiation
- Inductance range: 8.2 to 600 µH
- Heating current up to 2.19 A
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

Applications

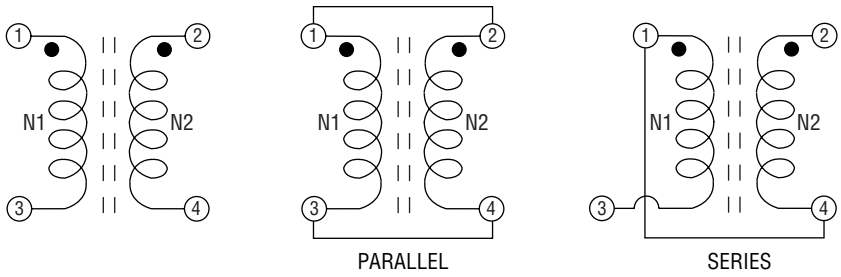
- DC/DC converters
- Power supplies
- SEPIC - DC/DC converters

SRF0703A Series - Dual-Winding Shielded Power Inductors

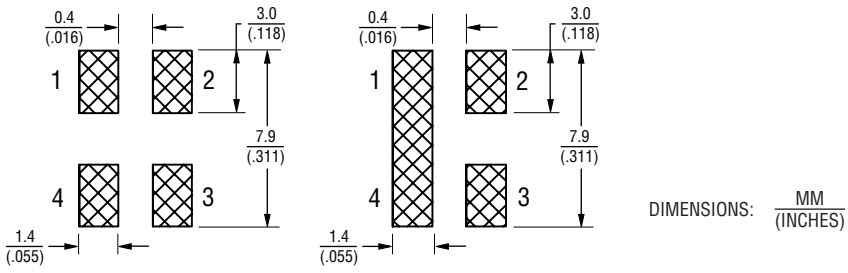
Electrical Specifications @ 25 °C

Bourns Part No.	Parallel Rating				Series Rating			
	Inductance @ 100 kHz / 0.25 V L (µH) ±20 %	DCR (Ω) Max.	Irms (A)	Isat (A)	Inductance @ 100 kHz / 0.25 V L (µH) ±20 %	DCR (Ω) Max.	Irms (A)	Isat (A)
SRF0703A-8R2M	8.2	0.0772	2.19	2.66	34.1	0.306	1.1	1.33
SRF0703A-100M	10	0.0826	2.08	2.47	39.6	0.342	1.04	1.24
SRF0703A-150M	15	0.119	1.83	2.05	59.6	0.47	0.916	1.03
SRF0703A-220M	22	0.15	1.62	1.67	89.5	0.62	0.811	0.83
SRF0703A-330M	33	0.24	1.31	1.35	140.5	1.0	0.653	0.68
SRF0703A-470M	47	0.338	1.08	1.14	194.2	1.28	0.542	0.57
SRF0703A-680M	68	0.507	0.89	0.96	289.3	1.92	0.444	0.48
SRF0703A-820M	82	0.61	0.86	0.89	324.7	2.28	0.43	0.44
SRF0703A-101M	100	0.715	0.73	0.79	397.6	2.64	0.367	0.39
SRF0703A-151M	150	0.986	0.58	0.65	608.2	3.63	0.289	0.32
SRF0703A-221M	220	1.48	0.52	0.53	922.6	5.5	0.26	0.27
SRF0703A-331M	330	2.16	0.42	0.44	1335	8.25	0.211	0.22

Electrical Schematics



Recommended Layout



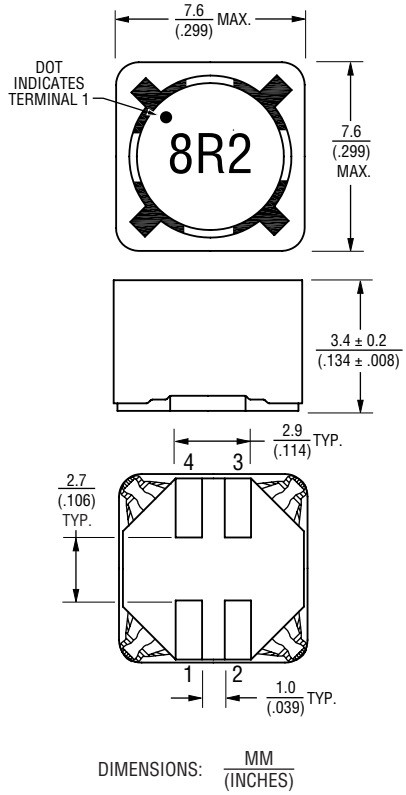
General Specifications

Operating Temperature .....-40 °C to +125 °C (Temperature rise included)
Storage Temperature .....-40 °C to +125 °C
Temperature Rise .....40 °C typ. at rated Irms
Inductance Drop .....30 % typ. at Isat
Hi-pot (N1-N2) .....500 Vac/60 Hz, 3 mA, 1 sec
Moisture Sensitivity Level 1
ESD Classification (HBM) ..... N/A

Materials

Core .....Ferrite
Wire .....Enameled copper
Terminal Finish .....Sn
Packaging..... 1500 pcs. per reel

Product Dimensions



* 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.

Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

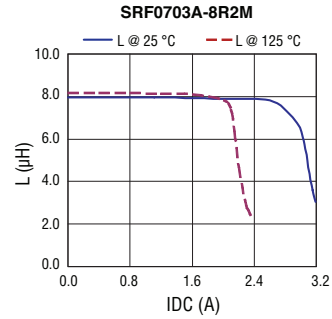
How to Order

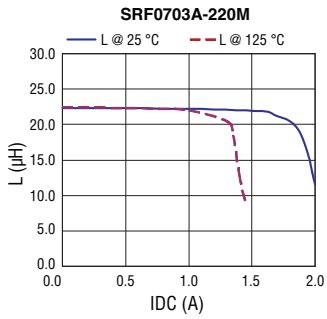
SRF0703A - 100M

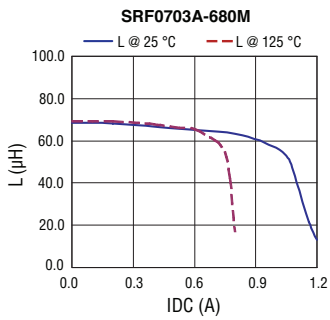
Model

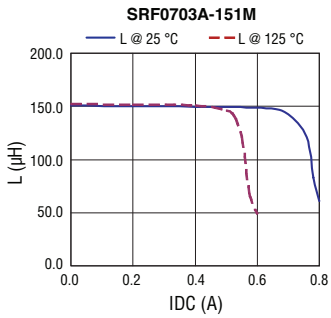
Value Code (see table)

Inductance vs. IDC

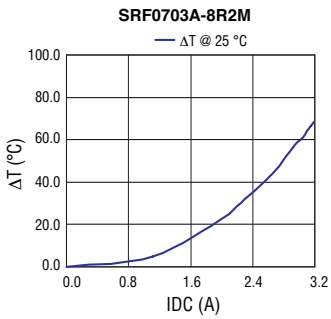


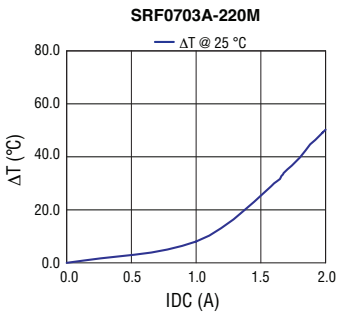


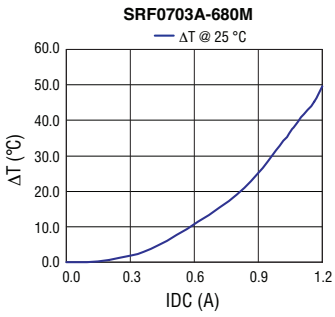


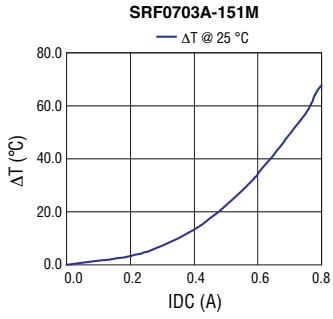


Temperature Rise vs. IDC



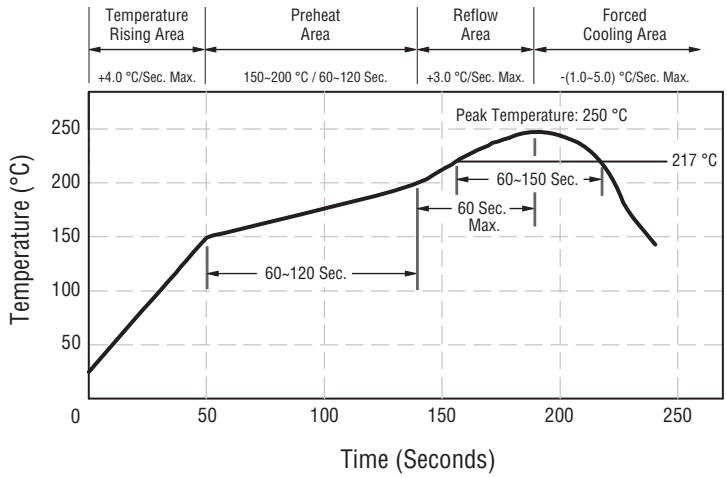






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Soldering Profile

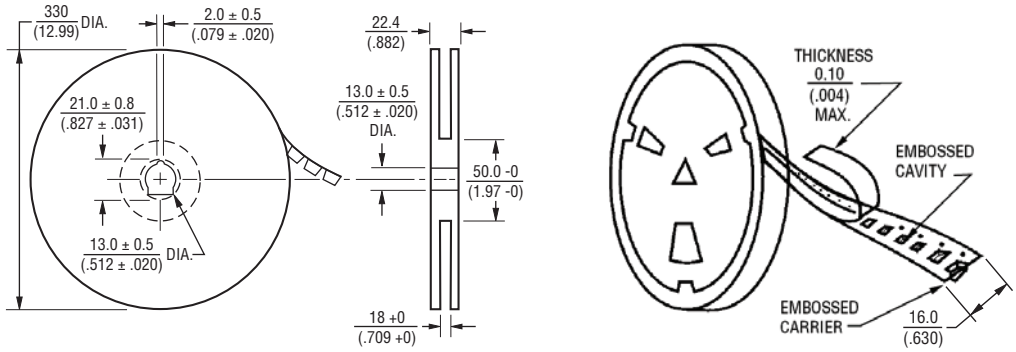


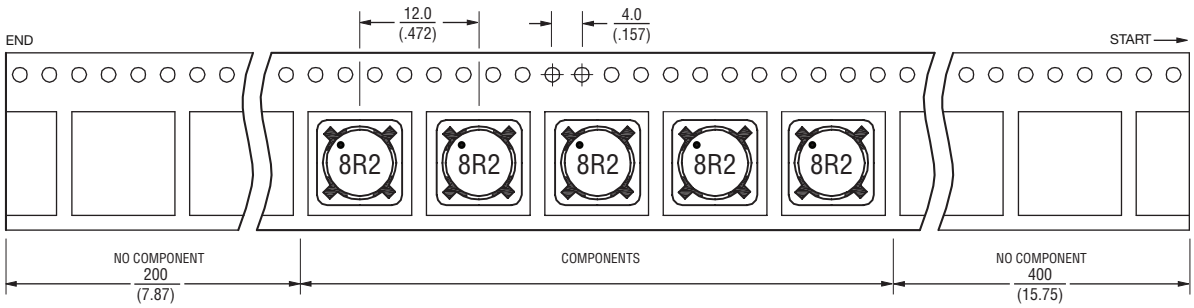
Peak Temperature:
250 ° C max.

Max. Peak Temperature -5 °C:
30 sec. max.

Max. Time Above 217 °C:
90-150 sec. max.

Packaging Specifications





USER DIRECTION OF FEED

QTY: 1500 PCS. PER REEL

DIMENSIONS: MM (INCHES)

REV. 04/20

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