

Features

- Shielded construction
- Metal alloy powder core
- High saturation current
- Flat wire
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

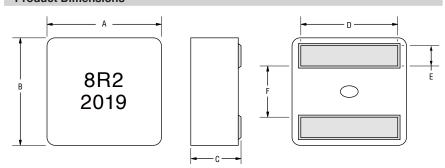
SRP5050FA Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

	Inductance @ 100 kHz / 0.1 V		SRF	DCR	DCR	I rms (A) Typ.		Isat
Bourns Part Number	L (μH)	Tol. %	(MHz) Typ.	(mΩ) Typ.	(mΩ) Max.	20 °C Temp. Rise	40 °C Temp. Rise	(A) Typ.
SRP5050FA-5R6M	5.60	± 20 %	20	22.0	24.2	5.3	7.2	8.6
SRP5050FA-6R8M	6.80	± 20 %	18	26.0	28.6	4.8	6.4	7.8
SRP5050FA-8R2M	8.20	± 20 %	15	29.5	32.5	4.6	6.1	7.2
SRP5050FA-100M1	10	± 20 %	10	39.0	43	3.8	5	6.5
SRP5050FA-150M1	15	± 20 %	9	60.0	66	3	4	5.5
SRP5050FA-220M1	22	± 20 %	8	90.6	99.65	2.5	3.4	5

Product Dimensions

NEW!



	Dimensions										
Bourns Part Number	А	В	С	D	E	F					
SRP5050FA-xxxM	$\frac{5.5 \pm 0.2}{(.217 \pm .008)}$	$\frac{5.3 \pm 0.2}{(.209 \pm .008)}$	4.8 ± 0.2	4.3 ± 0.3	1.1 ± 0.2	2.3 ± 0.25					
SRP5050FA-xxxM1	$\frac{6.0 \pm 0.2}{(.236 \pm .008)}$	$\frac{5.7 \pm 0.2}{(.224 \pm .008)}$	(.189 ± .008)	(.169 ± .012)	(.043 ± .008)	(.091 ± .010)					

DIMENSIONS:

MM (INCHES)

BOURNS

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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 (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) content is 1500 ppm or less. Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

Additional Information

Click these links for more information:











INVENTORY

General Specifications

Operating Temperature

.....-55 °C to +155 °C (Temperature rise included) Storage Temperature (Component)-55 °C to +155 °C Rated Current..... Inductance drops 30 % at Isat Temperature Rise20 or 40 °C at rated Irms1

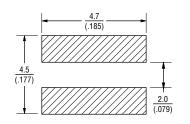
ESD Classification (HBM).....N/A

Note 1: Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

Core..... Metal alloy powder Wire Enameled copper Terminal FinishSn Packaging..... 1500 pcs. per 13-inch reel

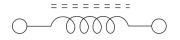
Recommended Layout



DIMENSIONS:

(INCHES)

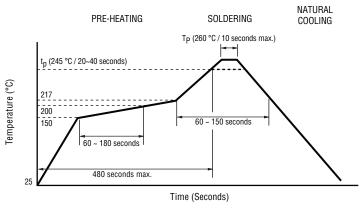
Schematic



How to Order

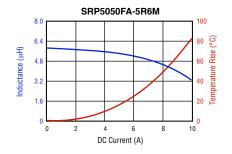
SRP5050FA - 8R2M Value Code (see table)

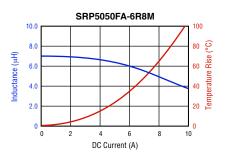
Soldering Profile

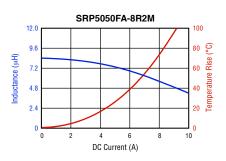


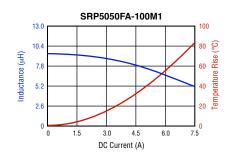
REFLOW TIMES: 3 MAX.

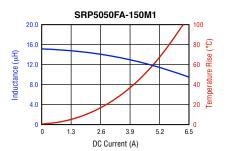
L vs. I Charts

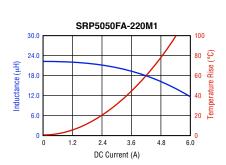




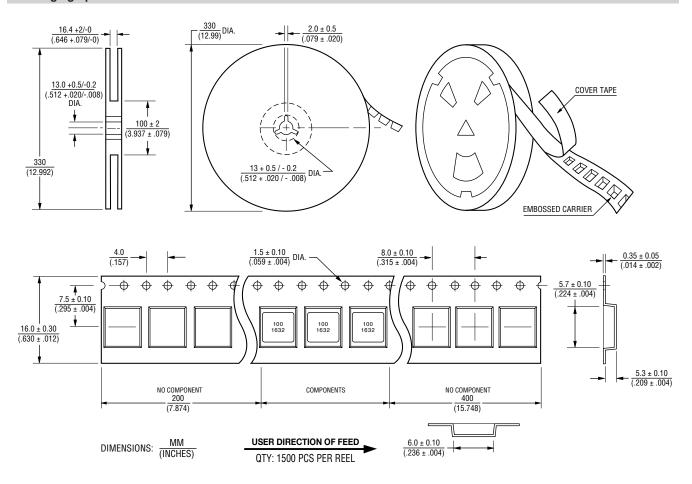








Packaging Specifications



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