

Features

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

Applications

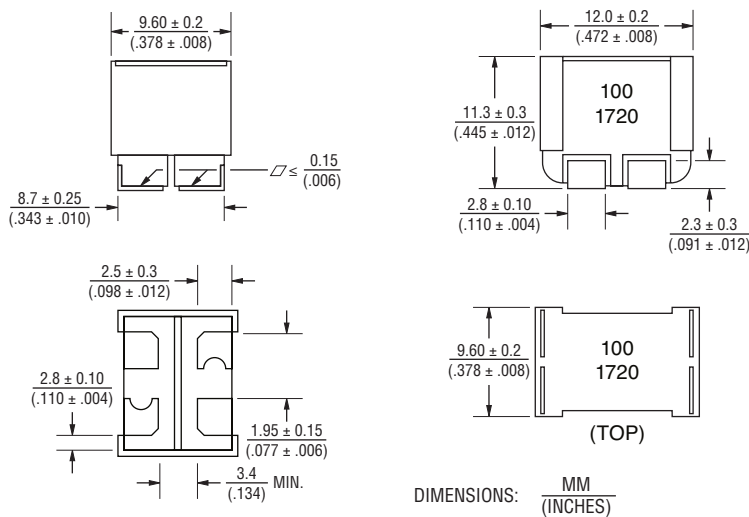
- Class-D amplifier systems
- Class-D output filters

SRF1010DA Series – Dual-Shielded Inductors for Class-D Amplifiers

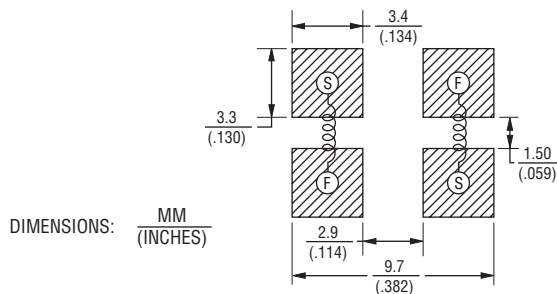
Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 1 V		SRF (MHz) Ref.	DCR (mΩ) Typ.	DCR (mΩ) Max.	I rms (A) Typ.	I sat (A) Typ.
	L (μH)	Tol. %					
SRF1010DA-R43M	0.43	± 20 %	60	1.9	2.3	27	38.0
SRF1010DA-5R6M	5.6	± 20 %	15	20	23	7.5	11.0
SRF1010DA-7R5M	7.5	± 20 %	14	25	28	6.8	10.0
SRF1010DA-100M	10	± 20 %	12	30.5	32.6	5.6	7.4
SRF1010DA-150M	15	± 20 %	10	43.5	45.5	4.6	5.5

Product Dimensions



Recommended Layout



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 Rise ... 40 °C at rated Irms!
 MSL 1
 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.

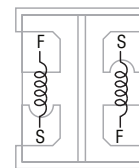
Materials

Core..... Metal alloy powder
 Wire Enameled copper
 Terminal Finish Sn/Ni
 Packaging..... 300 pcs. per 13-inch reel

How to Order

SRF1010DA - 100M
 Model _____
 Value Code (see table) _____

Schematic



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WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

**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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