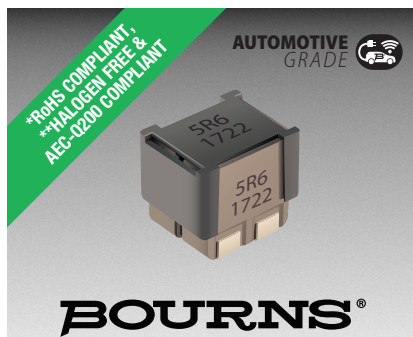




Features

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

Applications

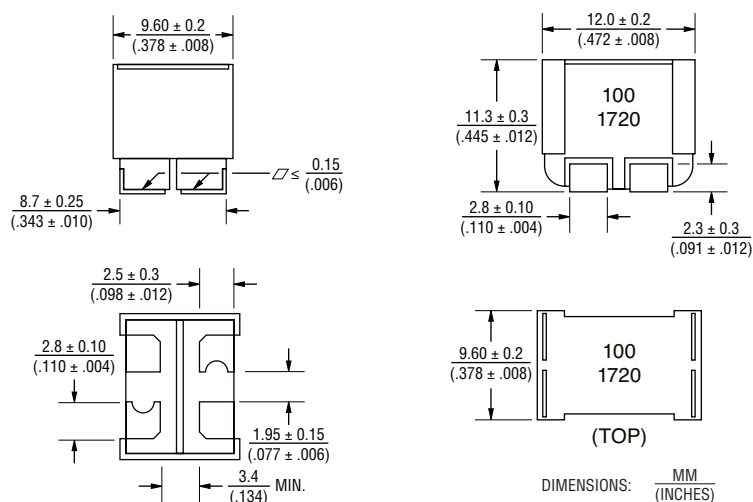
- Class-D amplifier systems
- Class-D output filters

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

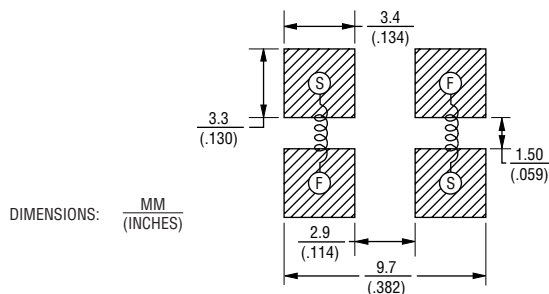
Electrical Specifications @ 25 °C

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



Additional Information

Click these links for more information:



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 Irms¹
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

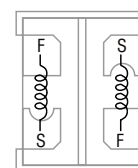
Core Metal alloy powder
Wire Enameled copper
Terminal Finish Sn/Ni
Packaging 300 pcs. per 13-inch reel

How to Order

SRF1010DA - 100M

Model
Value Code (see table)

Schematic



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.

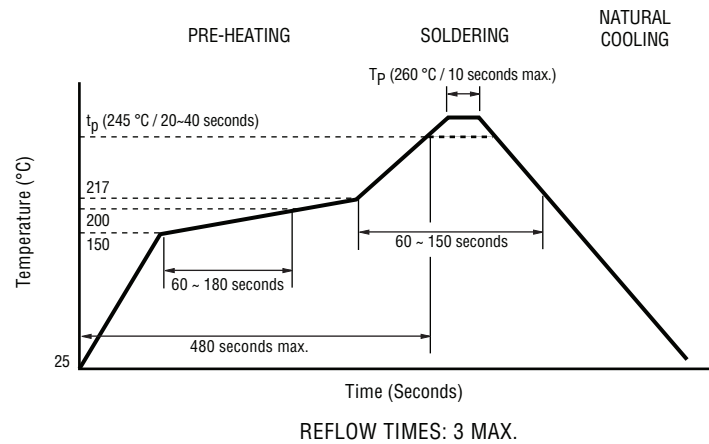
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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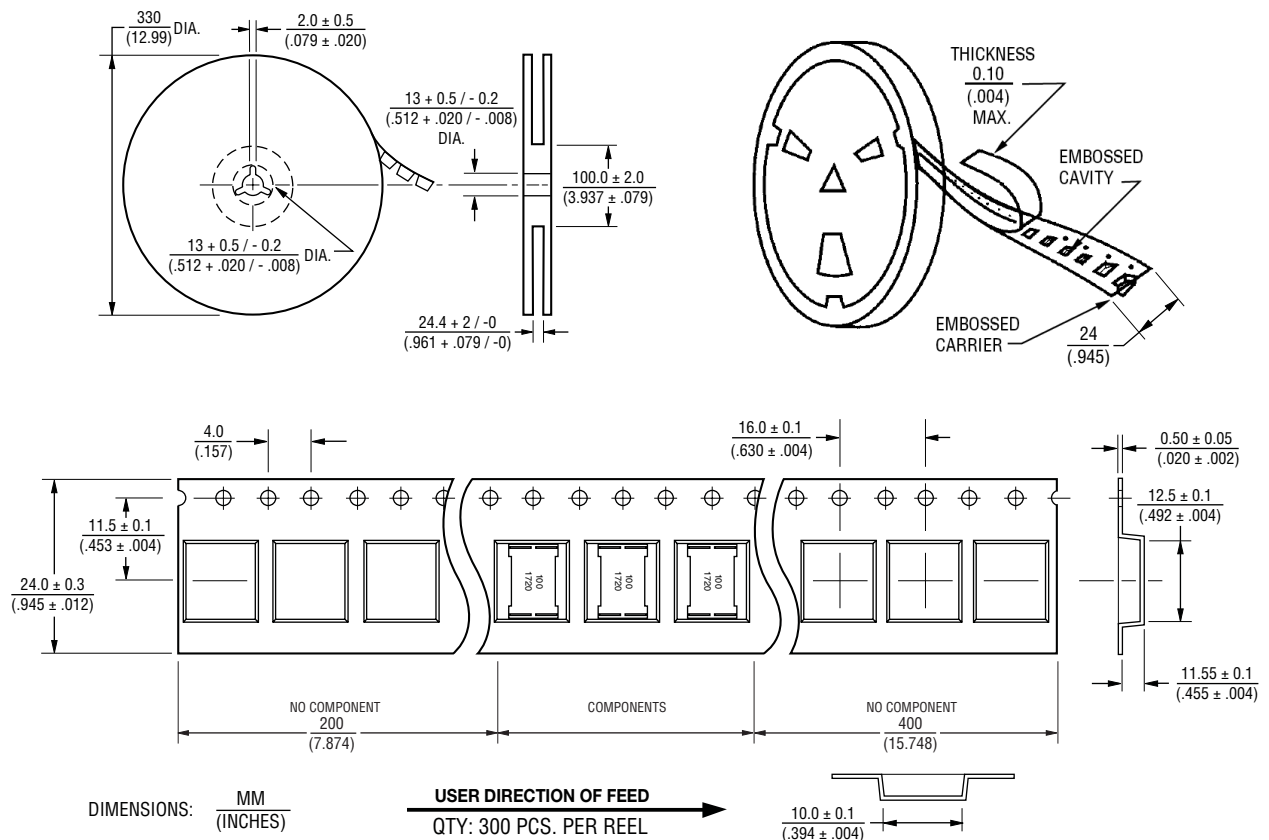
SRF1010DA Series – Dual-Shielded Inductors for Class-D Amplifiers

BOURNS®

Soldering Profile



Packaging Specifications



REV. 05/26

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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