

Features

- Shielded construction low radiation
- Inductance range: 2.6 to 1000 µH
- Heating current up to 4.5 A
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

Applications

- Automotive driver assistant devices, infotainment systems and lighting
- DC-DC converters
- Power supplies in consumer, industrial, and telecom electronics

SRR5828A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 KHz / 1.0 V		SRF (MHz)	DCR (milliohms)		I _{rms} 1	I _{rms} 2 (A)	I _{sat} (A)
Part Number	L (μH)	Tol. (%)	Тур.	Тур.	Max.	Тур.	Тур.	Тур.
SRR5828A-2R6Y	2.6	±30	78.0	23.0	30.0	3.25	4.50	3.15
SRR5828A-3R3Y	3.3	±30	70.0	27.0	35.0	3.20	4.40	2.80
SRR5828A-4R7Y	4.7	±30	48.0	31.0	40.0	3.00	4.00	2.57
SRR5828A-5R3Y	5.3	±30	46.0	35.0	42.0	2.80	3.80	2.20
SRR5828A-6R2Y	6.2	±30	41.0	45.0	57.0	2.60	3.50	2.10
SRR5828A-8R2Y	8.2	±30	37.0	49.0	63.0	2.30	3.00	1.62
SRR5828A-100M	10.0	±20	32.0	64.0	83.0	2.00	2.60	1.55
SRR5828A-120M	12.0	±20	25.0	76.0	100.0	1.85	2.50	1.50
SRR5828A-150M	15.0	±20	25.0	90.0	115.0	1.70	2.25	1.35
SRR5828A-180M	18.0	±20	22.0	100.0	130.0	1.60	2.15	1.30
SRR5828A-220M	22.0	±20	19.0	125.0	160.0	1.35	1.75	1.15
SRR5828A-270M	27.0	±20	18.0	147.0	180.0	1.25	1.65	1.05
SRR5828A-330M	33.0	±20	15.0	190.0	230.0	1.10	1.40	0.92
SRR5828A-390M	39.0	±20	14.0	200.0	260.0	1.05	1.37	0.86
SRR5828A-470M	47.0	±20	13.0	247.0	305.0	1.00	1.33	0.78
SRR5828A-560M	56.0	±20	11.0	315.0	395.0	0.85	1.13	0.70
SRR5828A-680M	68.0	±20	10.0	375.0	470.0	0.80	1.03	0.65
SRR5828A-820M	82.0	±20	9.0	425.0	530.0	0.73	0.95	0.60
SRR5828A-101M	100.0	±20	8.0	550.0	645.0	0.60	0.80	0.53
SRR5828A-151M	150.0	±20	7.0	770.0	910.0	0.55	0.70	0.45
SRR5828A-181M	180.0	±20	5.5	940.0	1100.0	0.48	0.64	0.42
SRR5828A-221M	220.0	±20	5.0	1095.0	1200.0	0.45	0.62	0.37
SRR5828A-331M	330.0	±20	4.0	1830.0	2100.0	0.35	0.46	0.30
SRR5828A-681M	680.0	±20	3.0	4170.0	4800.0	0.23	0.31	0.21
SRR5828A-102M	1000.0	±20	2.0	6360.0	7300.0	0.15	0.21	0.13

Notes:

- 1. Irms1 based on temperature rise of 20 °C typ.
- 2. Irms2 based on temperature rise of 40 °C typ.

How to Order SRR5828A - 2R6Y Model -Value Code (see table) **Electrical Schematic** ======

Operating Temperature-40 °C to +150 °C (Temperature rise included) Storage Temperature

General Specifications

.....-40 °C to +150 °C Temperature Rise20 °C typ. at rated I_{rms}1

.....40 °C typ. at rated Irms2 Inductance Drop35 % typ. at Isat Moisture Sensitivity Level.....1 ESD Classification (HBM).....N/A



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

RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Click these links for more information:











Materials

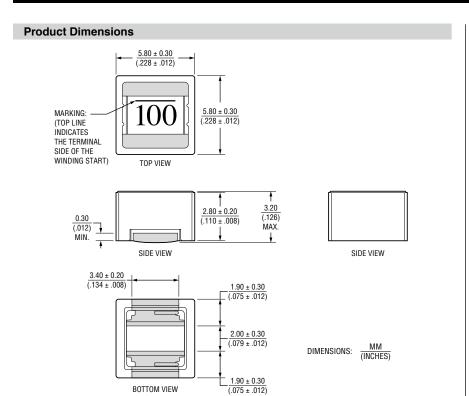
PRODUCT TECHNICAL INVENTORY SAMPLES
SELECTOR LIBRARY

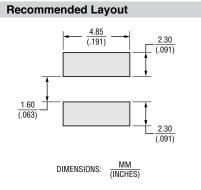
Core	Ferrite
Wire	Enameled copper
Terminal Finish.	Sn/Ag/Cu
Packaging	. 400 pcs. per 7-inch reel

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 (CI) content is 1500 ppm or less.

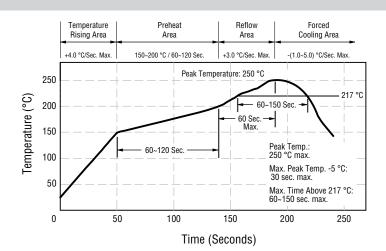
Additional Information

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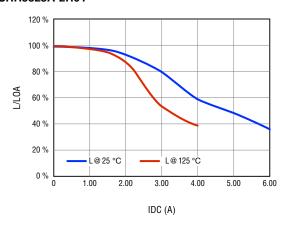
Soldering Profile

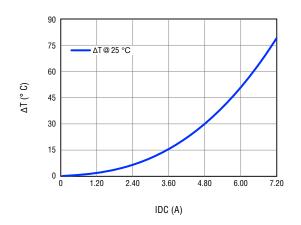


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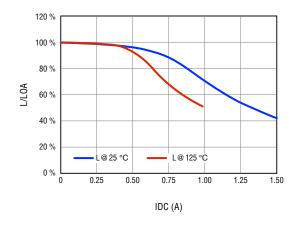
Typical Current Characteristics

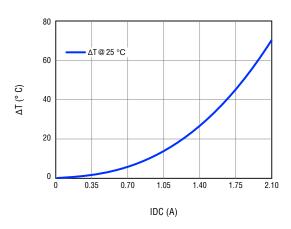
SRR5828A-2R6Y





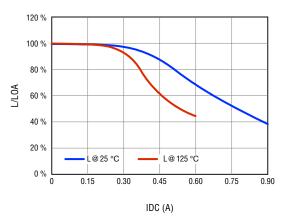
SRR5828A-330M

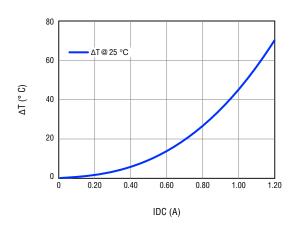




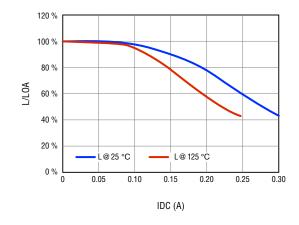
Typical Current Characteristics (continued)

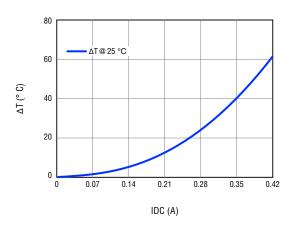
SRR5828A-101M





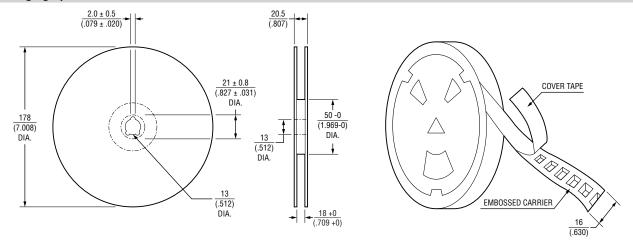
SRR5228A-681M



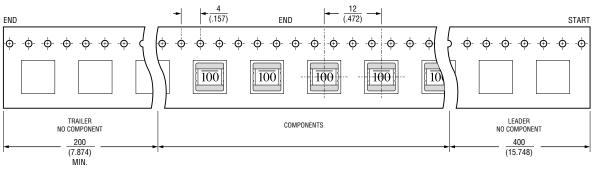


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Packaging Specifications



DIMENSIONS: $\frac{MM}{(INCHES)}$



USER DIRECTION OF FEED

QTY: 400 PCS PER REEL

BOURNS®

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 SRR5828A-181M
 SRR5828A-180M

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 SRR5828A-2R6Y
 SRR5828A-330M
 SRR5828A-390M
 SRR5828A-221M
 SRR5828A-270M

 SRR5828A-6R2Y
 SRR5828A-3R3Y
 SRR5828A-8R2Y
 SRR5828A-100M
 SRR5828A-102M
 SRR5828A-470M

 SRR5828A-5R3Y
 SRR5828A-560M
 SRR5828A-150M
 SRR5828A-331M
 SRR5828A-120M
 SRR5828A-681M

 SRR5828A-4R7Y