



BOURNS®

Features

- Shielded construction
- Inductance range: 1.2 to 390 μ H
- Heating current up to 4.8 A
- AEC-Q200 compliant
- RoHS compliant* and halogen free**



This series is currently available but not recommended for new designs. The [Model SRR4828A Series](#) is the recommended replacement.

SRR4528A Series – Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 0.1 V		SRF (MHz) Typ.	DCR (mΩ)		I rms (A) Typ.	I sat (A) Typ.
	L (μ H)	Tol. %		Typ.	Max.		
SRR4528A-1R2Y	1.2	± 30 %	82.0	12.3	17.0	4.82	3.04
SRR4528A-1R8Y	1.8	± 30 %	78.0	14.3	20.0	4.20	2.50
SRR4528A-2R2Y	2.2	± 30 %	76.0	17.4	23.0	3.78	2.32
SRR4528A-2R7Y	2.7	± 30 %	68.0	19.1	29.0	3.40	2.10
SRR4528A-3R3Y	3.3	± 30 %	60.0	25.6	35.0	2.93	1.82
SRR4528A-3R9Y	3.9	± 30 %	58.0	28.2	37.0	2.80	1.70
SRR4528A-4R7Y	4.7	± 30 %	54.0	29.8	40.0	2.63	1.58
SRR4528A-5R6Y	5.6	± 30 %	50.0	34.9	47.0	2.39	1.49
SRR4528A-6R8Y	6.8	± 30 %	45.0	43.2	58.0	2.25	1.37
SRR4528A-7R4Y	7.4	± 30 %	42.0	46.7	63.0	2.16	1.28
SRR4528A-8R2Y	8.2	± 30 %	38.0	51.5	70.0	2.12	1.22
SRR4528A-100M	10.0	± 20 %	35.0	64.9	88.0	1.76	1.13
SRR4528A-120M	12.0	± 20 %	28.0	74.2	100.0	1.62	0.99
SRR4528A-150M	15.0	± 20 %	24.0	87.9	119.0	1.42	0.90
SRR4528A-180M	18.0	± 20 %	23.0	104.0	136.0	1.28	0.85
SRR4528A-220M	22.0	± 20 %	21.0	138.0	179.0	1.10	0.72
SRR4528A-270M	27.0	± 20 %	20.0	152.0	197.0	1.06	0.68
SRR4528A-330M	33.0	± 20 %	18.0	184.0	239.0	0.95	0.59
SRR4528A-390M	39.0	± 20 %	16.0	218.0	272.0	0.90	0.57
SRR4528A-470M	47.0	± 20 %	15.0	240.0	300.0	0.86	0.52
SRR4528A-560M	56.0	± 20 %	14.0	278.0	348.0	0.81	0.45
SRR4528A-680M	68.0	± 20 %	12.0	361.0	452.0	0.70	0.41
SRR4528A-820M	82.0	± 20 %	11.0	442.0	552.0	0.59	0.39
SRR4528A-101M	100.0	± 20 %	10.0	487.0	609.0	0.56	0.34
SRR4528A-121M	120.0	± 20 %	9.0	547.0	700.0	0.53	0.30
SRR4528A-151M	150.0	± 20 %	8.5	724.0	905.0	0.48	0.29
SRR4528A-181M	180.0	± 20 %	7.0	903.0	1128.0	0.43	0.26
SRR4528A-221M	220.0	± 20 %	6.0	1184.0	1480.0	0.37	0.23
SRR4528A-271M	270.0	± 20 %	5.0	1290.0	1612.0	0.34	0.19
SRR4528A-331M	330.0	± 20 %	4.5	1730.0	2160.0	0.32	0.18
SRR4528A-391M	390.0	± 20 %	4.0	1910.0	2380.0	0.28	0.17

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 35 % typ. at Isat

MSL 1

ESD Classification (HBM) N/A

Materials

Core Ferrite
Wire Enamelled copper
Terminal Finish Sn
Packaging 500 pcs. per 7-inch reel

How to Order

SRP4528A - 1R2Y

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.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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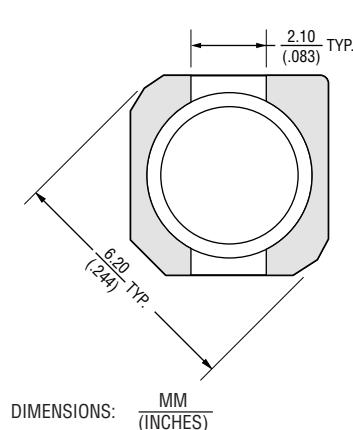
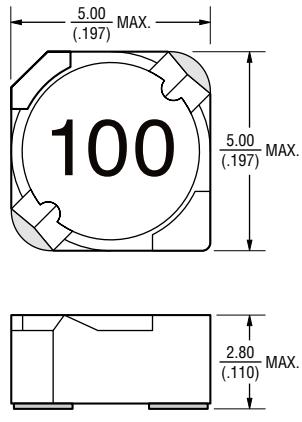
Applications

- Selected automotive applications:
 - Driver assistant
 - Infotainment
 - Lighting
- DC-DC converters
- Power supplies

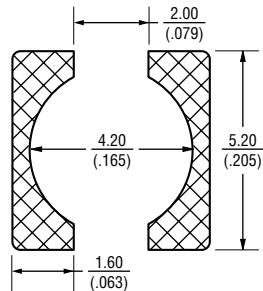
SRR4528A Series – Shielded Power Inductors

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Product Dimensions



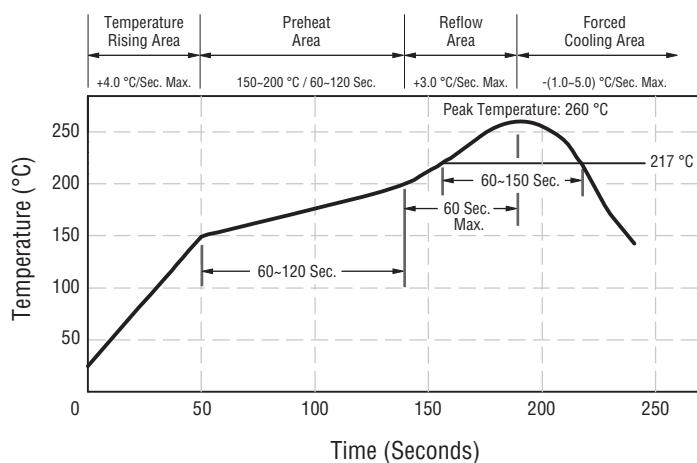
Recommended Layout



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

Soldering Profile

Peak Temperature: 260 °C max.
Max. Peak Temperature -5 °C: 30 sec. max.
Max. Time Above 217 °C: 60~150 sec. max.



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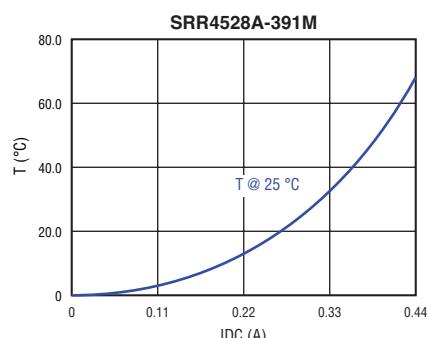
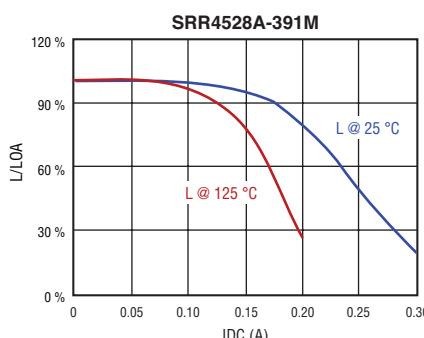
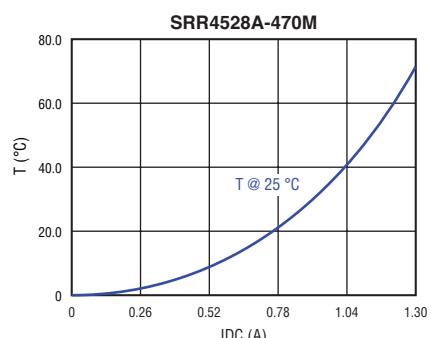
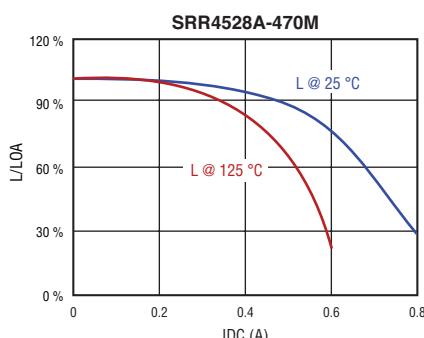
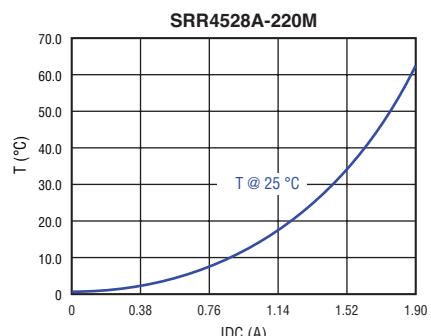
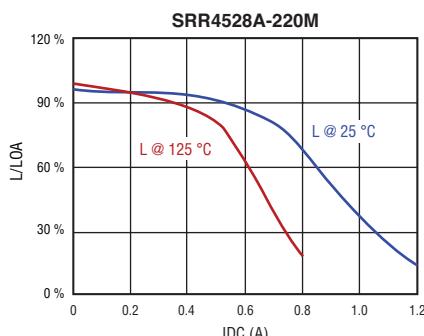
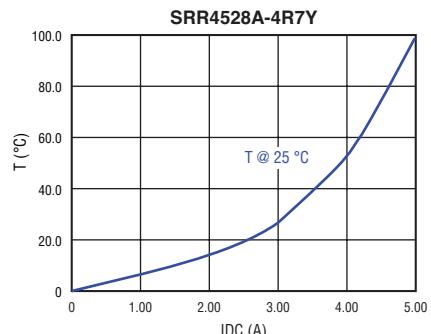
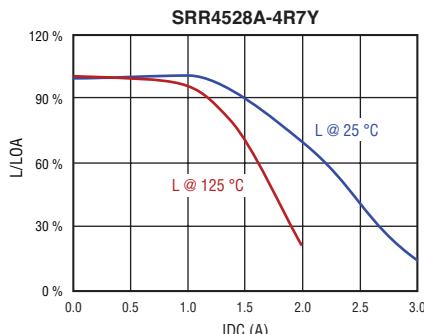
Users should verify actual device performance in their specific applications.

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Inductance vs. Current and Temperature Rise vs. Current



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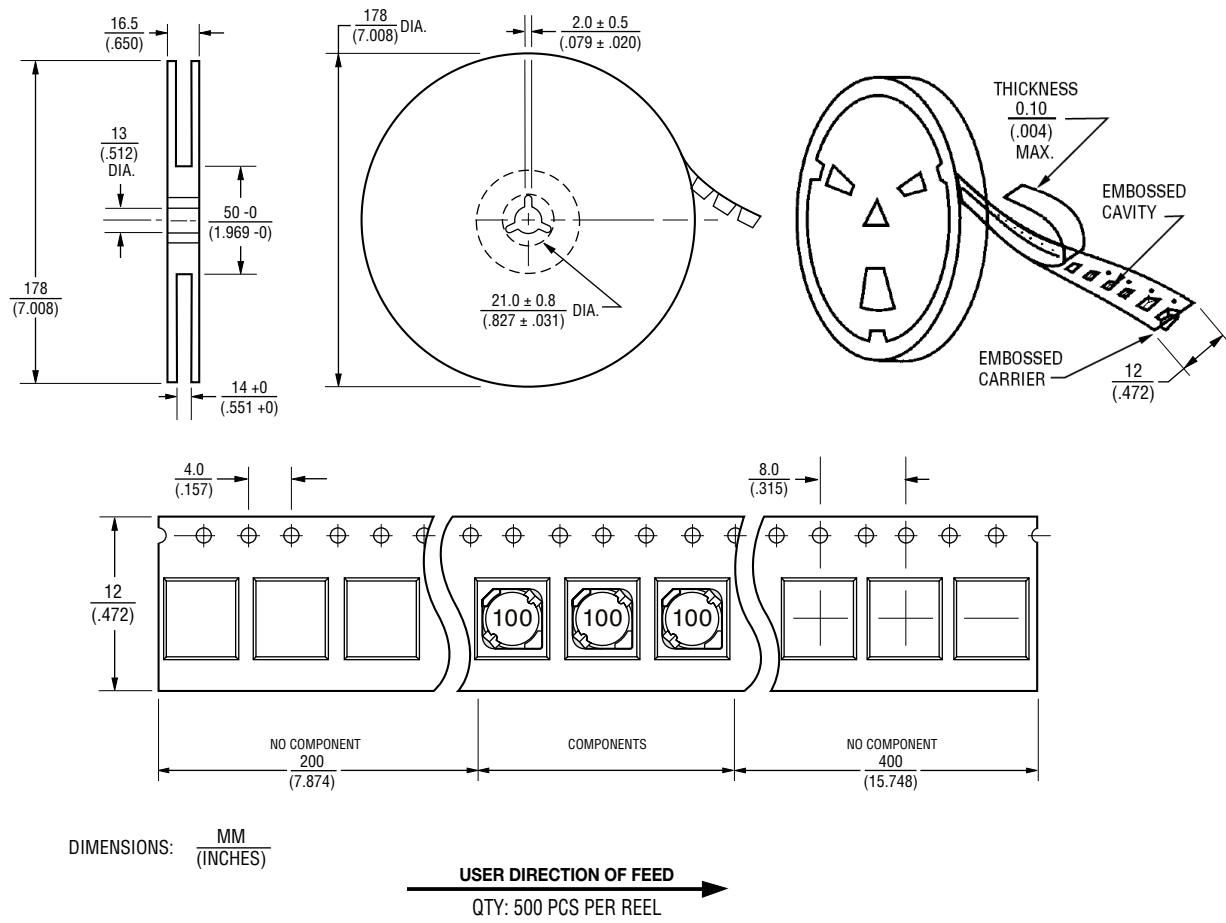
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Packaging Specifications



REV. 09/25

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[SRR4528A-2R7Y](#) [SRR4528A-101M](#) [SRR4528A-120M](#) [SRR4528A-680M](#) [SRR4528A-391M](#) [SRR4528A-820M](#)
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