



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**

Applications

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

SRR4528A Series – Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 0.1 V		SRF (MHz) Typ.	DCR (Ω)		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 I rms
 Inductance Drop 35 % typ. at I sat
 MSL 1
 ESD Classification (HBM)..... N/A

Materials

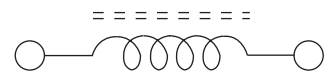
Core Ferrite
 Wire Enameled copper
 Terminal Finish Sn
 Packaging 500 pcs. per 7-inch reel

How to Order

SRP4528A - 1R2Y

Model _____
 Value Code (see table) _____

Schematic



BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 520 390 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com

* 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.

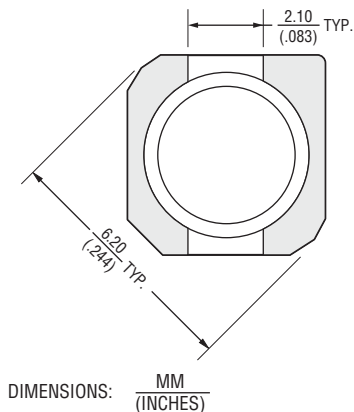
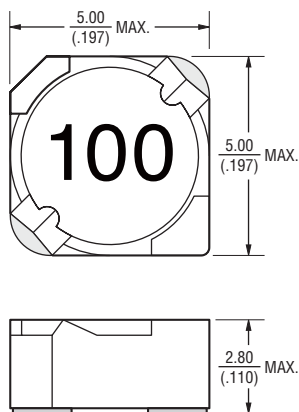
Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

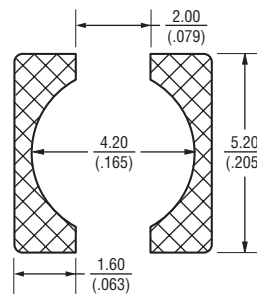
SRR4528A Series – Shielded Power Inductors

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Product Dimensions



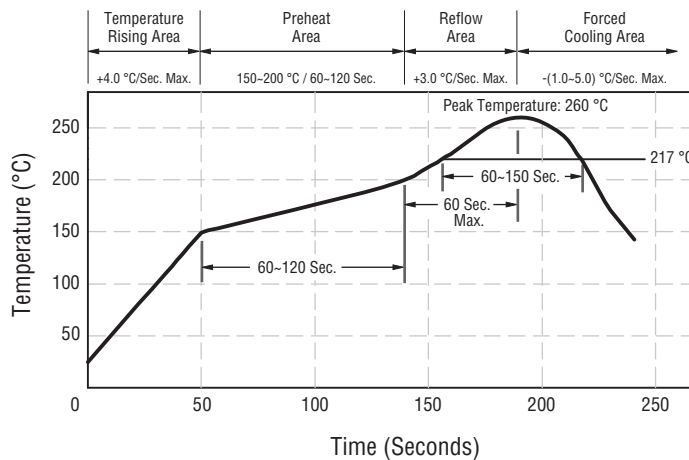
Recommended Layout



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.

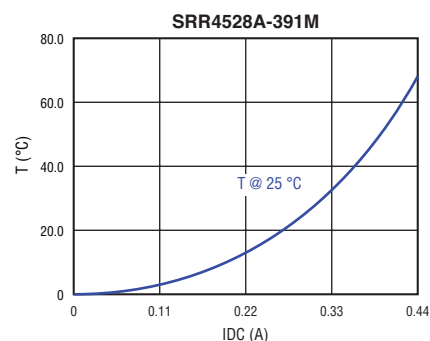
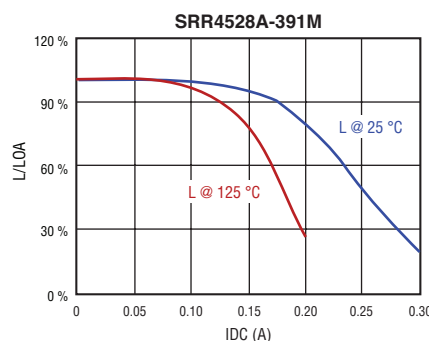
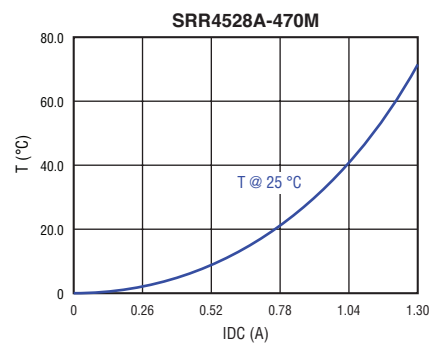
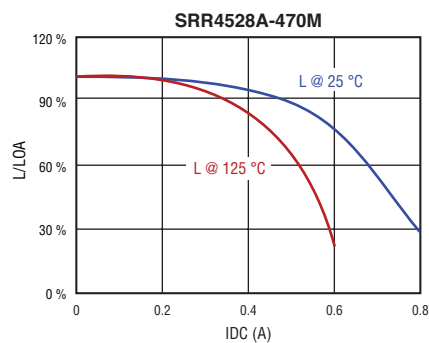
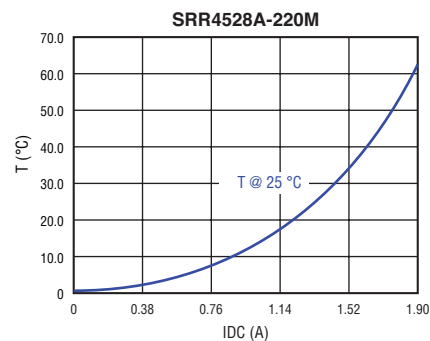
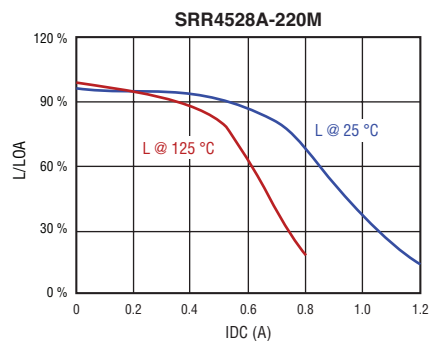
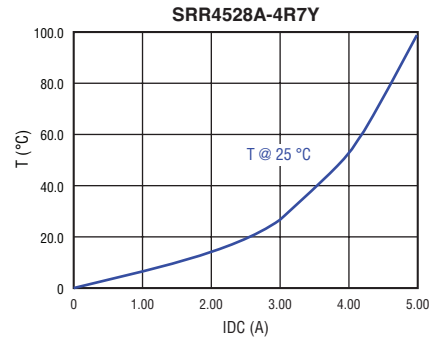
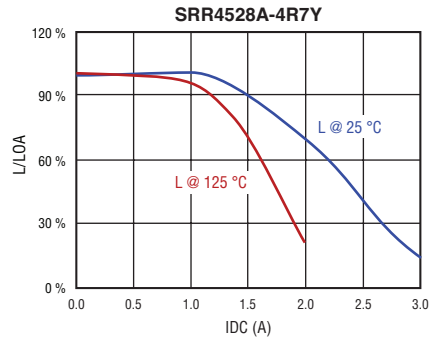


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Inductance vs. Current and Temperature Rise vs. Current



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Packaging Specifications

