

Features

- Shielded construction
- Carbonyl powder core
- High saturation current
- Inductance range: 0.10 to 10 µH
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

Applications

- Automotive systems:
 - Driver assistant
 - Information
 - Entertainment
 - Lighting
- DC/DC converters
- Power supplies

SRP1238A Series - Shielded Power Inductors

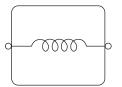
Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 KHz / 1 V		DCR	Irms	Isat
	L (μH)	Tol. (%)	(mΩ) Max.	(A)	(A)
SRP1238A-R10Y	0.10	± 30	0.43	43	84
SRP1238A-R15Y	0.15	± 30	0.48	41	75
SRP1238A-R22M	0.22	± 20	0.81	38.5	65
SRP1238A-R33M	0.33	± 20	1.0	36.5	62
SRP1238A-R47M	0.47	± 20	1.8	32	55
SRP1238A-R60M	0.60	± 20	2.2	29	51
SRP1238A-R68M	0.68	± 20	2.5	28	49
SRP1238A-R82M	0.82	± 20	3.0	25	44
SRP1238A-1R0M	1.0	± 20	3.5	24	40
SRP1238A-1R2M	1.2	± 20	4.0	21	37
SRP1238A-1R5M	1.5	± 20	5.5	19	35
SRP1238A-1R8M	1.8	± 20	7.0	17	30
SRP1238A-2R2M	2.2	± 20	8.0	16	29
SRP1238A-3R3M	3.3	± 20	13.5	12	27
SRP1238A-4R7M	4.7	± 20	18.5	10	24
SRP1238A-5R6M	5.6	± 20	22.0	9.5	19
SRP1238A-6R8M	6.8	± 20	24.0	9	18
SRP1238A-8R2M	8.2	± 20	28.0	8.5	16
SRP1238A-100M	10	± 20	34.0	7	14

How to Order

SRP1238A - 100M

Electrical Schematic

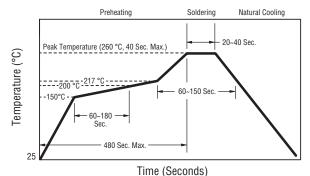


Soldering Profile

Peak Temperature: 260 °C max.

Max. Peak Temperature 260 °C: 40 sec. max.

Max. Time Above 217 °C: 60~150 sec. max.



Reflow Times: 3 Times Max.

General Specifications

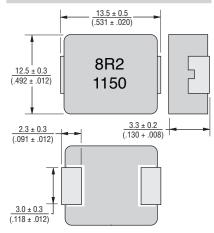
(Temperature rise included)
Storage Temperature

.....-40 °C to +125 °C Rated Current

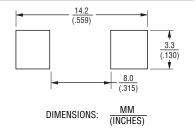
.....+260 °C, 40 sec. max.

Materials

Product Dimensions



Recommended Layout



Specifications are subject to change without notice.

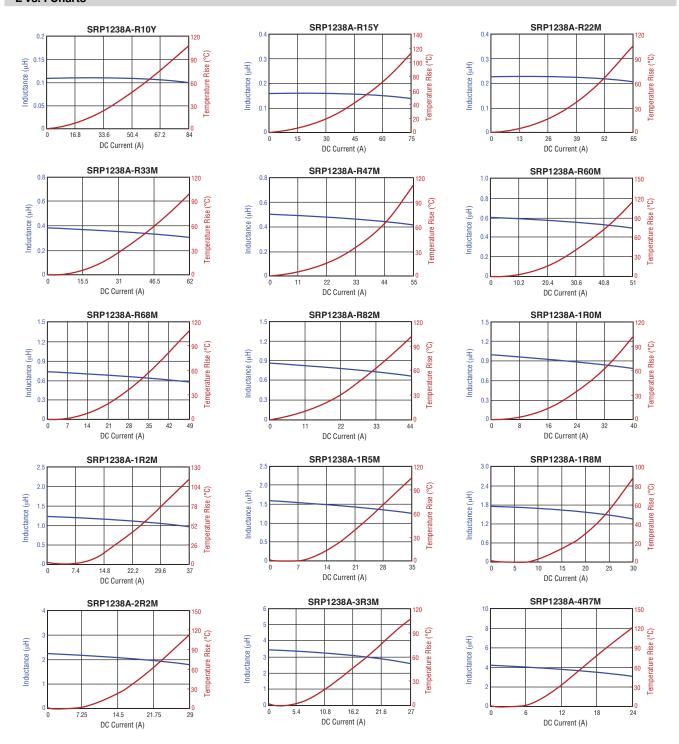
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

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

^{**} Bourns follows the prevailing definition of "halogen free" in the industry. 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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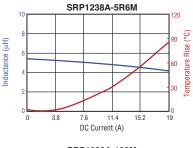
L vs. I Charts

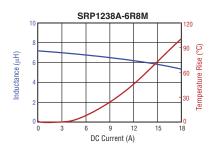


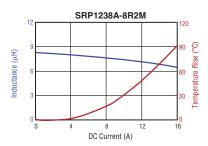
SRP1238A Series - Shielded Power Inductors

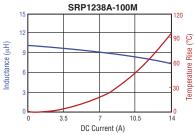
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L vs. I Charts (Continued)









Packaging Specifications

