

Features

- Compact size
- Shielded construction for low radiation
- Metal alloy powder core for high saturation current
- Flat wire
- Low DCR

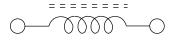
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP3212A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

	Induc @ 100 k	Hz / 1 V Typ.		SRF	DCR	DCR	Irms	Isat
Bourns Part No.	L (μH)	Tol. %	@ 100 kHz	(MHz) Typ.	(mΩ) Typ.	(mΩ) Max.	(A) Typ.	(A) Typ.
SRP3212A-R33M	0.33	20	3	132	10	13	8.5	9.1
SRP3212A-R47M	0.47	20	3	100	16	19	7.0	8.2
SRP3212A-R68M	0.68	20	5	83	20	24	6.2	7.3
SRP3212A-1R0M	1.0	20	5	63	26	32	5.5	6.5
SRP3212A-1R5M	1.5	20	5	43	44	53	4.4	5.0
SRP3212A-2R2M	2.2	20	5	41	61	73	4.0	4.8
SRP3212A-3R3M	3.3	20	5	28	87	101	3.1	3.4
SRP3212A-4R7M	4.7	20	5	25	122	146	2.2	2.8

Electrical Schematic



How to Order

SRP3212A - R33M

Additional Information

Click these links for more information:











PRODUCT SELECTOR

TECHNICAL INVENTORY S

CONTACT

General Specifications

Operating Temperature

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

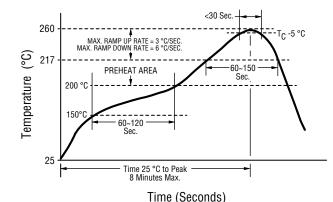
Storage Temperature (Component)-40 °C to +150 °C

Temperature Rise ... 40 °C at rated Irms¹ Rated Current

Materials

Core......Metal alloy powder
Wire.....Enameled copper
Terminal FinishAg/Ni/Sn
Packaging.....2000 pcs. per 7-inch reel

Soldering Profile



REFLOW TIMES: 3 TIMES MAX.

Profile Feature	Pb Free Assembly		
Preheat - Temperature Min. (T _{Smin}) - Temperature Max. (T _{Smax}) - Time(t _S) from T _{Smin} to T _{Smax}	150 °C 200 °C 60-120 seconds		
Ramp-up Rate (T _L to T _p)	3 °C/second max.		
Liquidous temperature (T _L) Time (t _L) maintained above T _L	217 °C 60-150 seconds		
Peak package body temperature (Tp)	260 °C		
Time within 5 °C of Actual Peak Temperature (tp)	< 30 seconds		
Ramp-Down Rate (T _p to T _L)	6 °C/second max.		
Time 25 °C to Peak Temperature	8 minutes max.		



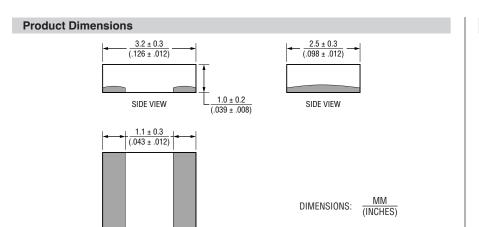
WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

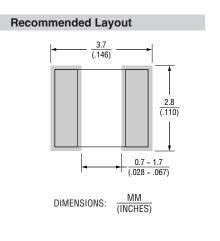
¹ Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

^{*} 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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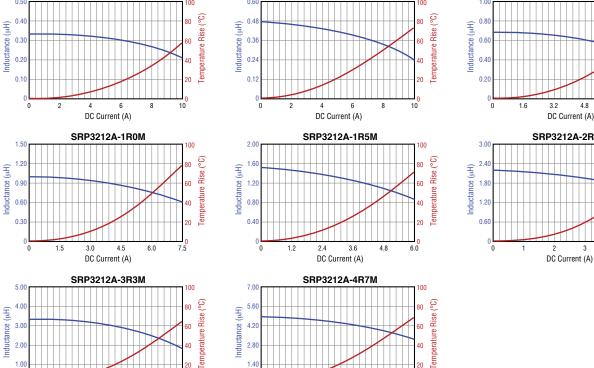




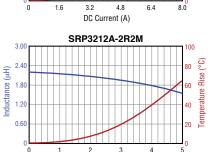
L vs. I Charts

BOTTOM VIEW

SRP3212A-R33M



SRP3212A-R47M



SRP3212A-R68M

emperature Rise (°C)

3.2

4.0

2.4

DC Current (A)

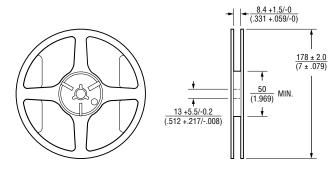
DC Current (A)

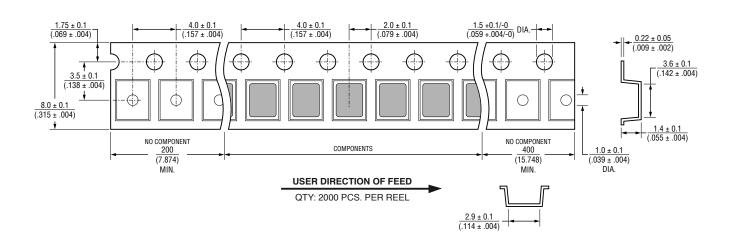
3.0

SRP3212A Series - Shielded Power Inductors

BOURNS

Packaging Specifications





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

BOURNS®

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

EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

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