

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**

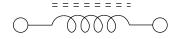
BOURNS

SRP3212A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

		tance Hz / 1 V	Q 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

Value Code (see table)

SRP3212A - R33M

Additional Information

Click these links for more information:











LIBRARY

General Specifications

Operating Temperature

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

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

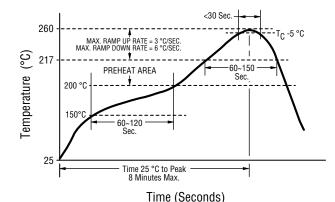
Temperature Rise ... 40 °C at rated Irms1 Rated Current

......Inductance drops 30 % at Isat Moisture Sensitivity Level.....1 ESD Classification (HBM).....N/A

Materials

Core.....Metal alloy powder WireEnameled 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 (Tp to TL)	6 °C/second max.			
Time 25 °C to Peak Temperature	8 minutes max.			



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

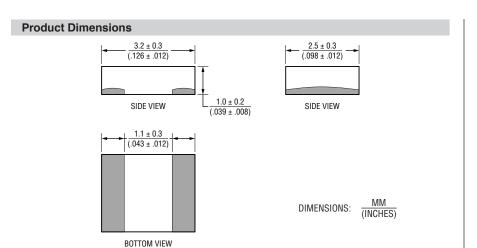
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

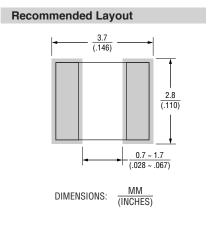
¹ Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

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

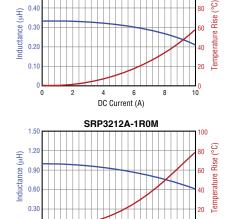
Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) content is 1500 ppm or less.

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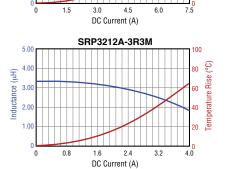


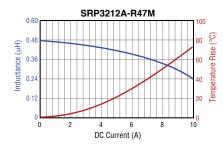


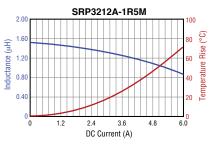
L vs. I Charts

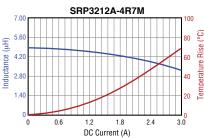


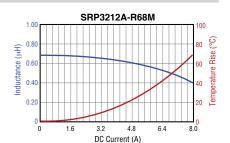
SRP3212A-R33M

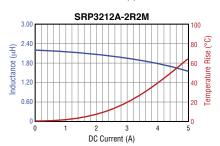








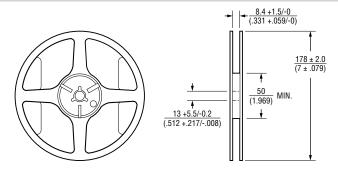


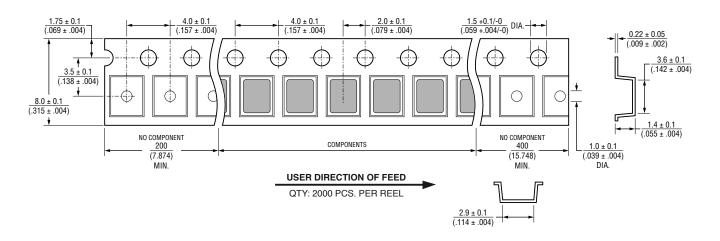


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Packaging Specifications





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

BOURNS®

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