

Features

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

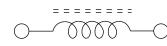
BOURNS

SRP3212A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

	Induc @ 100 k	tance Hz / 1 V	Q Typ. @ 100 kHz	SRF (MHz) Typ.	DCR (mΩ) Typ.	DCR (mΩ) Max.	Irms (A) Typ.	lsat (A) Typ.
Bourns Part No.	L (μ H)	Tol. %						
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





Profile Feature



Additional Information

AEC-Q200 compliant

Click these links for more information:

RoHS compliant* and halogen free**



General Specifications

Operating Temperature

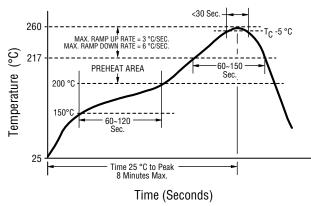
40 °C to +150 °C					
(Temperature rise included)					
Storage Temperature (Component)					
40 °C to +150 °C					
Temperature Rise 40 °C at rated Irms ¹					
Rated Current					
Inductance drops 30 % at Isat					
Moisture Sensitivity Level1					
ESD Classification (HBM)N/A					
¹ Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.					

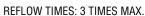
Materials

Core	
Wire	Enameled copper
Terminal Finish .	Ag/Ni/Sn
Packaging	2000 pcs. per 7-inch reel

Pb Free Assembly

Soldering Profile







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

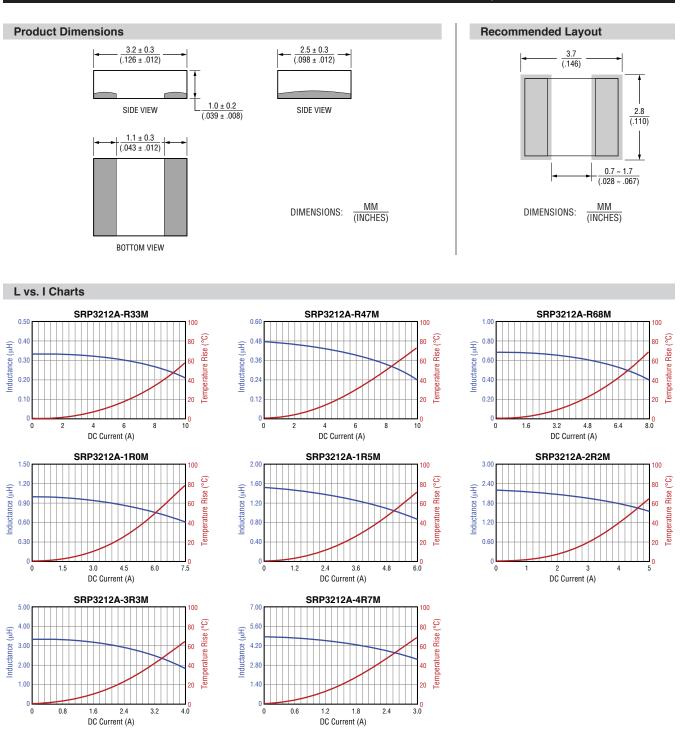
* Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) content is 1500 ppm or less.

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- 1		
	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.
ſ	Time 25 °C to Peak Temperature	8 minutes max.

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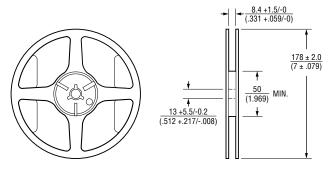
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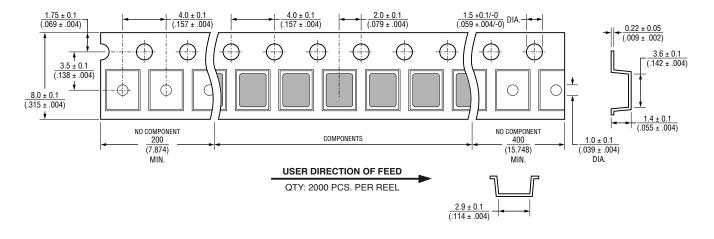
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Packaging Specifications





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

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