

Features

- Shielded construction for low radiation
- Metal alloy powder core for high saturation current
- RoHS compliant* and halogen free**

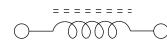
BOURNS

SRP3212 Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

	Induc @ 100 k	Hz/1V Typ.		SRF	DCR	DCR	Irms	Isat
Bourns Part No.	L (μ H)	Tol. %	@ 100 kHz	(MHz) Typ.	(mΩ) Typ.	(mΩ) Max.	(А) Тур.	(A) Typ.
SRP3212-R33M	0.33	20	3	132	10	13	8.5	9.1
SRP3212-R47M	0.47	20	3	100	16	19.2	7.0	8.2
SRP3212-R68M	0.68	20	5	83	20	24	6.2	7.3
SRP3212-1R0M	1.0	20	5	63	26	32	5.5	6.5
SRP3212-1R5M	1.5	20	5	43	44	53	4.4	5.0
SRP3212-2R2M	2.2	20	5	41	61	73	4.0	4.8
SRP3212-3R3M	3.3	20	5	28	87	101	3.1	3.4
SRP3212-4R7M	4.7	20	5	25	122	146	2.2	2.8

Electrical Schematic





Profile Feature

- Temperature Min. (T_{smin})

- Temperature Max. (T_{smax})

Ramp-up Rate (TL to Tp)

Liquidous temperature (TL)

Time (tL) maintained above TI

Ramp-Down Rate (Tp to TL)

Time 25 °C to Peak Temperature

- Time(t_s) from T_{smin} to T_{smax}

Peak package body temperature (Tp)

Time within 5 °C of Actual Peak Temperature (tp)

Preheat



Additional Information

Click these links for more information:



General Specifications

Operating Temperature

(Temperature rise included)
Storage Temperature (Component)
-40 °C to +125 °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	Metal alloy powder
Wire	Enameled copper
Terminal Finish	Ag/Ni/Sn
Packaging 20	00 pcs. per 7-inch reel

Pb Free Assembly

60-120 seconds

3 °C/second max.

60-150 seconds

< 30 seconds

8 minutes max.

6 °C/second max.

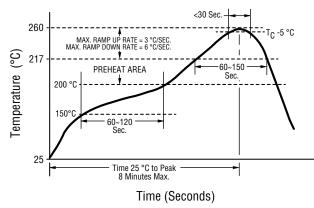
150 °C

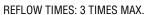
200 °C

217 °C

260 °C

Soldering Profile







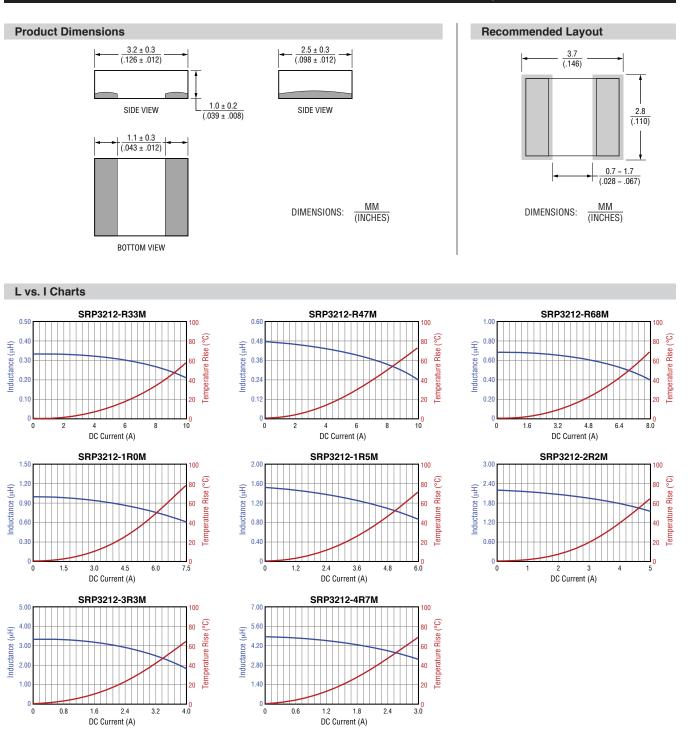
RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** 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 (Cl) content is 1500 ppm or less.

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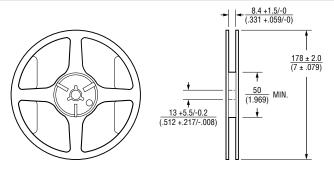
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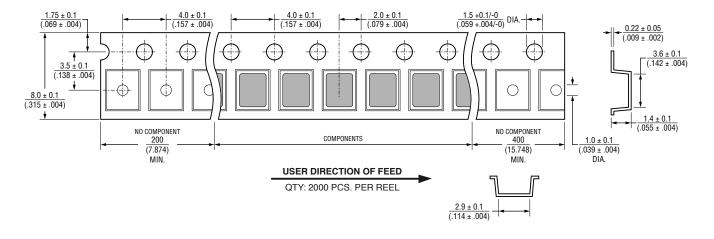
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Packaging Specifications





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

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