

### **Features**

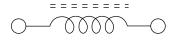
- Shielded construction for low radiation
- Metal alloy powder core for high saturation current
- RoHS compliant\* and halogen free\*\*

## **SRP3212 Series - Shielded Power Inductors**

### Electrical Specifications @ 25 °C

	Inductance @ 100 kHz / 1 V		Q Typ.	SRF	DCR	DCR	Irms	Isat
Bourns Part No.	<b>L</b> (μ <b>H</b> )	Tol. %	@ 100 kHz	(MHz) Typ.	(mΩ) Typ.	(mΩ) Max.	(A) Typ.	(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**



### **How to Order**

SRP3212 - R33M

Value Code (see table)

### **Additional Information**

Click these links for more information:











PRODUCT SELECTOR TECHNICAL INVENTORY

CONTACT

### **General Specifications**

Operating Temperature

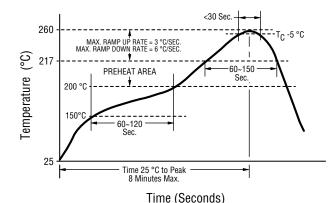
.....-40 °C to +125 °C (Temperature rise included)

Storage Temperature (Component)

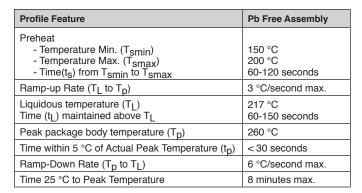
<sup>1</sup> Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

### Materials

### **Soldering Profile**



REFLOW TIMES: 3 TIMES MAX.





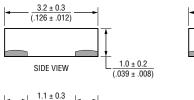
### WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

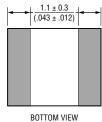
<sup>\*</sup> RoHS Directive 2015/863, Mar 31, 2015 and Annex.

<sup>\*\*</sup> 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.

# **SRP3212 Series - Shielded Power Inductors**

### **Product Dimensions**



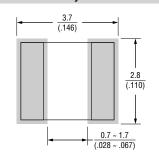


MM DIMENSIONS: (INCHES)

 $\frac{2.5 \pm 0.3}{(.098 \pm .012)}$ 

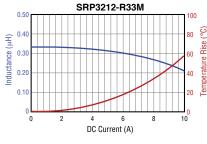
SIDE VIEW

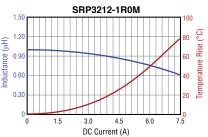
### **Recommended Layout**

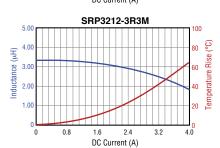


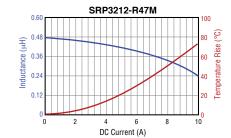
 $\mathsf{MM}$ DIMENSIONS: (INCHES)

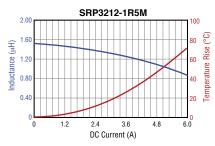
### L vs. I Charts

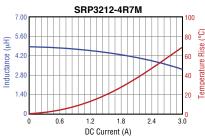


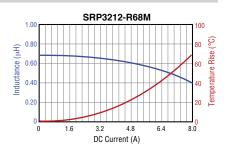


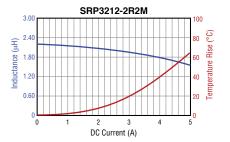








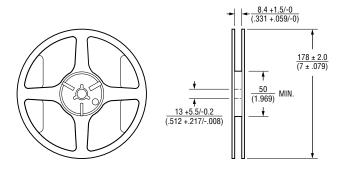


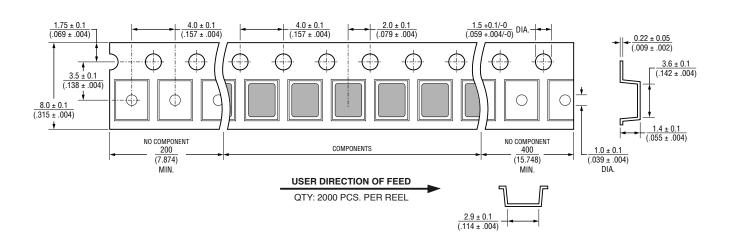


# **SRP3212 Series - Shielded Power Inductors**

## BOURNS

### **Packaging Specifications**





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

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1R2T-N LVS606020-1R5M-N LVS606028-6R8M-N LVS606045-102M-N LVS606045-150M-N LVS606045-1R8M-N LVS606045-6R8MN LVS808040-2R0M-N LVS808040-330M-N LVS808040-4R7M-N MHCI06030-R56M-R8 SCD0403T-470M-N SCD0403T-6R8K-N

SCD0504T-101M-N SCD0504T-120M-N SCD0504T-221M-N SCD0504T-470M-N SCD0504T-471M-N SCD0705T-180M-N SCD0705T
221M-N SCD0705T-470M-N SCD1005T-101M-N SCD1005T-221M-N SCD1005T-470M-N SSL1306T-101M-N LQB15NNR27K10D

201610CDMCDDS-R47MC 201610CDMCDDS-1R0MC 201610CDMCDDS-R68MC LSQPB201210T220M LBCNF2012KKTR24MA

LSQEA201212T220K LSENC2016KKT1R0M LSQNB160808T470M LSBHB1608KKT2R2MG LSQPB160807T2R2M

LSQEA201212T101K LCXND4040MKL4R7MDG DEM8045Z-5R6N=P3 LCXND30300KT4R7MNG