

Features

- Shielded construction
- Carbonyl powder core
- High saturation current
- Low radiation
- Low buzz noise
- RoHS compliant* and halogen free**

SRP3012CC Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

	Induc @ 100 k	tance Hz / 1 V		SRF (MHz)	DCR (mΩ)	DCR (mΩ)	Irms (A)	Isat (A)
Bourns Part No.	L (μH)	Tol. %	Q Min.	Typ.	Typ.	Max.	Typ.	Typ.
SRP3012CC-R15Y	0.15	30	6	195	9.6	11	10	14
SRP3012CC-R22M	0.22	20	6	170	14	17	8	12
SRP3012CC-R33M	0.33	20	6	150	16	20	7	9.8
SRP3012CC-R47M	0.47	20	6	107	25	30	5	6.5
SRP3012CC-R68M	0.68	20	6	85	34	40	4.5	5.8
SRP3012CC-1R0M	1.0	20	10	65	50	60	3.3	5.2
SRP3012CC-1R5M	1.5	20	10	55	71	85	3	4
SRP3012CC-2R2M	2.2	20	10	45	98	115	2.7	3.2
SRP3012CC-3R3M	3.3	20	6	40	172	198	2	2.6
SRP3012CC-4R7M	4.7	20	10	35	245	282	1.6	2.3
SRP3012CC-5R6M	5.6	20	5	32	310	360	1.5	2
SRP3012CC-6R8M	6.8	20	10	29	360	400	1.4	1.8
SRP3012CC-8R2M	8.2	20	10	26	420	463	1.2	1.5
SRP3012CC-100M	10	20	10	23	450	520	1.1	1.4

Additional Information

Click these links for more information:











RODUCT ELECTOR

TECHNICAL LIBRARY

INVENTORY SAMPL

CONTACT

General Specifications

Operating Temperature

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

Storage Temperature (Component)
.....-40 °C to +125 °C

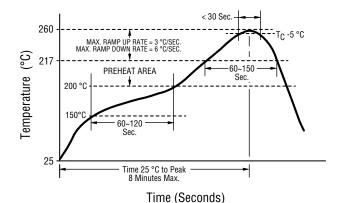
Temperature Rise40 °C at rated I_{rms}¹ Rated Current

¹Circuit 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

Carbonyl powder
Enameled copper
Sn
cs. per 13-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 (t _p)	<30 seconds			
Ramp-Down Rate (T _p to T _L)	6 °C/second max.			
Time 25 °C to Peak Temperature	8 minutes max.			



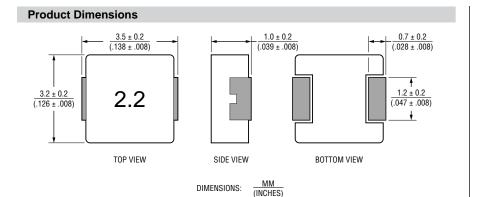
WARNING Cancer and Reproductive Harm

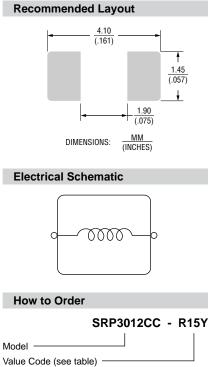
www.P65Warnings.ca.gov

^{*} RoHS Directive 2015/863, Mar 31, 2015 and Annex.

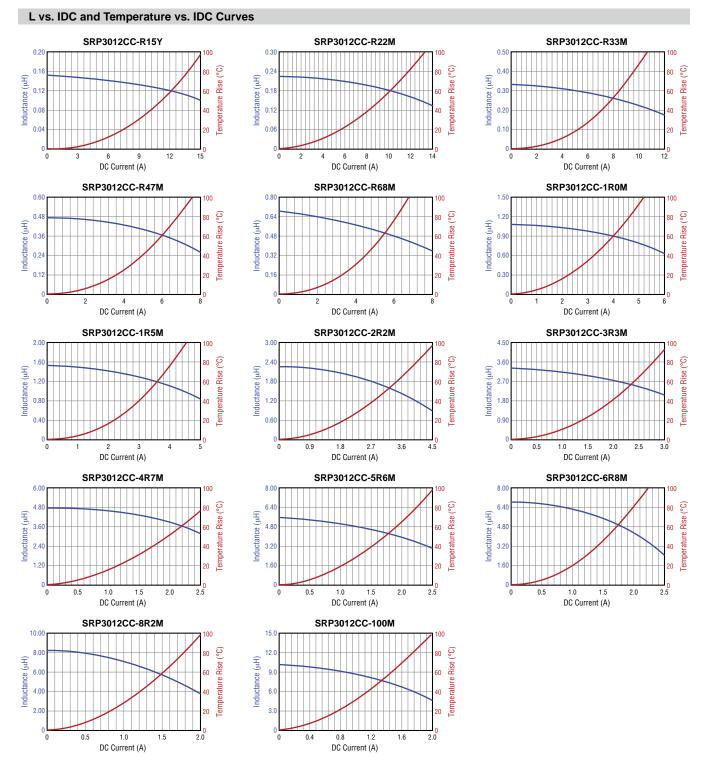
^{**} Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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Specifications are subject to change without notice.

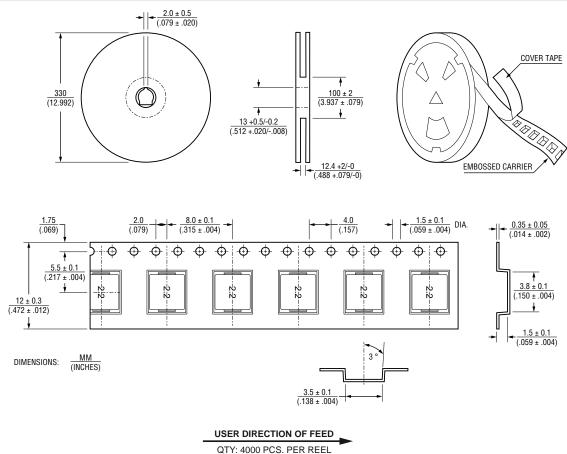
Users should verify actual device performance in their specific applications.

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BOURNS

Packaging Specifications



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