imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Features

- Available in E12 series
- Height of 10 mm
- Current rating up to 11 A
- RoHS compliant*

Applications

- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs
 - · Car radios

SRR1210 Series - Shielded SMD Power Inductors

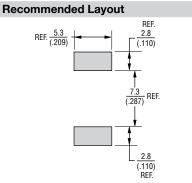
Electrical Characteristics

	Induc												
	Inductance 100 KHz			Test	SRF	DCR							
			Q	Frequency	MHz	max.	l rms	l sat	**K-				
Bourns Part No.	uH	Tol. %	Ref.	(MHz)	Тур.	(m Ω)	(A)	(A)	Factor				
SRR1210-1R0Y	1.0	±30	10	7.96	85	6.0	11.0	16.5	86				
SRR1210-1R8Y	1.8	±30	10	7.96	56	7.5	10.2	13.2	67				
SRR1210-2R2Y	2.2	±30	10	7.96	54	9.0	9.5	12.2	55				
SRR1210-3R3Y	3.3	±30	15	7.96	44	10	9.0	10.5	46				
SRR1210-4R7Y	4.7	±30	8	7.96	35	12	8.5	9.6	40				
SRR1210-5R6Y	5.6	±30	12	7.96	28	14	8.0	8.5	35				
SRR1210-6R8Y	6.8	±30	12	7.96	20	15	7.9	8.3	32				
SRR1210-8R2Y	8.2	±30	11	7.96	16	17	7.3	7.5	29				
SRR1210-100M	10	±20	16	2.52	12	18	6.5	6.5	26				
SRR1210-120M	12	±20	14	2.52	18	22	6.3	6.1	24				
SRR1210-150M	15	±20	16	2.52	10.5	32	5.8	5.3	21				
SRR1210-180M	18	±20	13	2.52	8.0	35	5.5	5.1	19				
SRR1210-220M	22	±20	16	2.52	8.0	38	5.2	4.5	17				
SRR1210-270M	27	±20	16	2.52	6.5	40	5.0	4.2	15				
SRR1210-330M	33	±20	16	2.52	6.5	52	4.4	3.7	14				
SRR1210-390M	39	±20	16	2.52	4.5	66	4.2	3.5	13				
SRR1210-470M	47	±20	16	2.52	4.5	72	3.8	3.1	12				
SRR1210-560M	56	±20	8	2.52	4.0	90	3.4	2.9	11				
SRR1210-680M	68	±20	12	2.52	3.8	102	3.0	2.7	10				
SRR1210-820M	82	±20	15	2.52	3.5	112	2.8	2.5	9				
SRR1210-101M	100	±20	16	0.796	3.0	135	2.5	2.2	8				
SRR1210-121M	120	±20	13	0.796	2.6	170	2.3	1.9	7				
SRR1210-151M	150	±20	12	0.796	2.2	190	2.2	1.8	7				
SRR1210-181M	180	±20	14	0.796	1.8	250	1.9	1.6	6				
SRR1210-221M	220	±20	15	0.796	1.8	315	1.7	1.5	5				
SRR1210-271M	270	±20	16	0.796	1.8	410	1.5	1.3	5				
SRR1210-331M	330	±20	14	0.796	1.8	450	1.4	1.2	4				
SRR1210-391M	390	±20	16	0.796	1.3	600	1.3	1.1	4				
SRR1210-471M	470	±20	12	0.796	0.85	820	1.2	1.0	4				
SRR1210-561M	560	±20	12	0.796	0.85	900	1.1	0.95	3				
SRR1210-681M	680	±20	11	0.796	0.85	1200	1.0	0.85	3				
SRR1210-821M	820	±20	6	0.796	0.85	1320	0.85	0.75	3				
SRR1210-102M	1000	±20	22	0.796	0.85	1650	0.75	0.70	3				

**K-Factor: To calculate core flux density, Bp-p (gauss) = K x L(μ H) x Δ I (peak-to-peak ripple current, A), determine core loss from *Core Loss vs. Flux Density* plot.

Schematic

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.



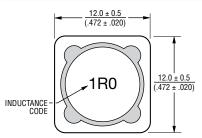
General Specifications

Test Voltage 0.25 volt/1 KHz Operating Temperature
-40 °C to +125 °C
(Temperature rise included)
Storage Temperature
-40 °C to +125 °C
Resistance to Soldering Heat
260 °C for 5 sec.
Rated Current
Ind. drop of 20 % typ. at Isat
Temperature Rise 40 °C typical at Irms

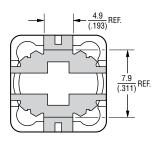
Materials

Core	Ferrite DR & RI
Wire	. Enameled copper
Terminal coating	Matte Sn
Packaging	250 pcs. per reel

Product Dimensions





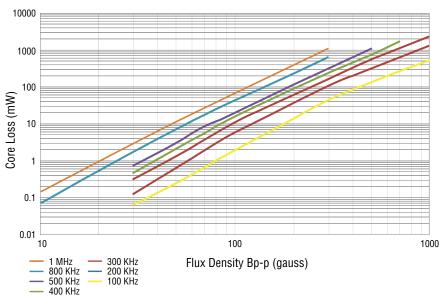


DIMENSIONS: (INC



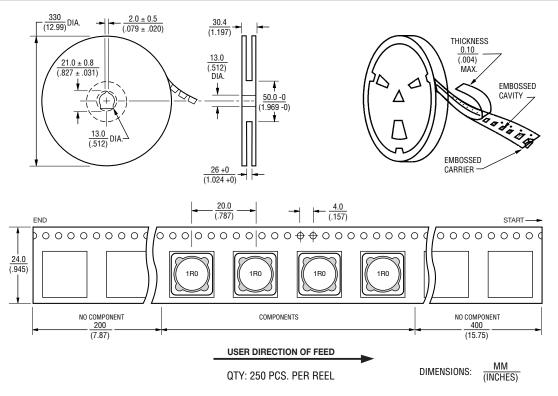
SRR1210 Series - Shielded SMD Power Inductors

BOURNS



Core Loss vs. Flux Density

Packaging Specifications



REV. 02/17

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