



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!



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Features

- Available in E12 series
- Height of 2.9 mm
- Current rating up to 2.1 A
- RoHS compliant*

Applications

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

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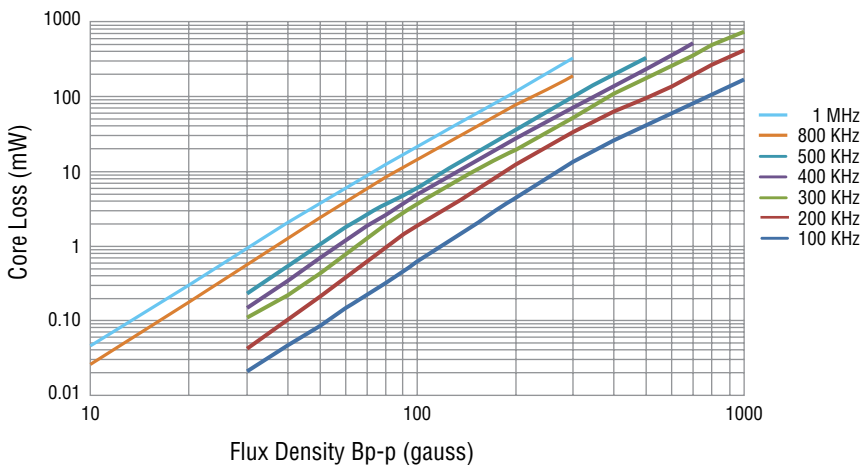
SRR0905 Series - Shielded SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 100 KHz		Q Ref.	Test Frequency (MHz)	SRF Typ. (MHz)	DCR Max. (Ω)	Idc (A)	**K- Factor
	μH	Tol. %						
SRR0905-100M	10	± 20	39	2.52	29	0.06	2.1	77
SRR0905-120M	12	± 20	40	2.52	26	0.07	1.9	65
SRR0905-150M	15	± 20	35	2.52	24	0.07	1.7	57
SRR0905-180M	18	± 20	39	2.52	21	0.08	1.6	53
SRR0905-220M	22	± 20	35	2.52	18	0.08	1.4	48
SRR0905-270M	27	± 20	35	2.52	17	0.10	1.3	43
SRR0905-330Y	33	± 15	27	2.52	14	0.11	1.2	41
SRR0905-390Y	39	± 15	31	2.52	14	0.12	1.1	36
SRR0905-470Y	47	± 15	27	2.52	11	0.14	1.0	32
SRR0905-560Y	56	± 15	26	2.52	11	0.19	0.93	30
SRR0905-680Y	68	± 15	26	2.52	10	0.21	0.85	27
SRR0905-820Y	82	± 15	26	2.52	9	0.28	0.79	26
SRR0905-101K	100	± 10	29	0.796	8	0.34	0.72	22
SRR0905-121K	120	± 10	31	0.796	7	0.37	0.63	21
SRR0905-151K	150	± 10	24	0.796	6	0.51	0.55	18
SRR0905-181K	180	± 10	24	0.796	5	0.57	0.50	16
SRR0905-221K	220	± 10	27	0.796	5	0.78	0.47	15
SRR0905-271K	270	± 10	30	0.796	5	0.87	0.41	13
SRR0905-331K	330	± 10	29	0.796	4	1.20	0.37	13
SRR0905-391K	390	± 10	26	0.796	3	1.34	0.35	11
SRR0905-471K	470	± 10	26	0.796	3	1.50	0.33	10

**K-Factor: To calculate core flux density, B_p -p (gauss) = $K \times L(\mu H) \times \Delta I$ (peak-to-peak ripple current, A), determine core loss from *Core Loss vs. Flux Density* plot.

Core Loss vs. Flux Density



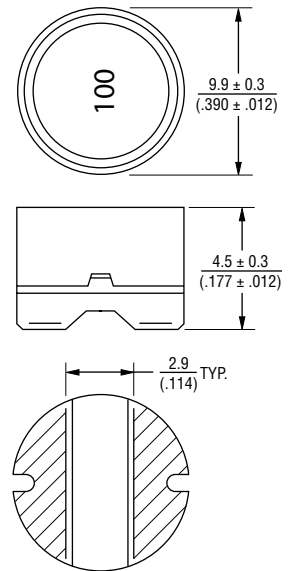
General Specifications

Test Voltage 1 V
 Reflow Soldering .. 230 °C, 50 sec. max.
 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.

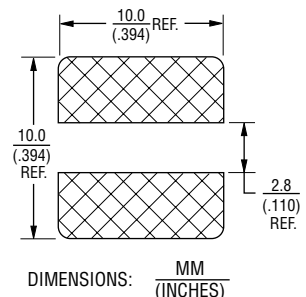
Materials

Core Material Ferrite DR & RI
 Wire Enameled copper
 Terminal Ag/Ni/Sn
 Rated Current
 Ind. drop of 10 % typ. at Isat
 Temperature Rise
 15 °C typ. at rated Irms
 Packaging 800 pcs. per reel

Product Dimensions



Recommended Layout

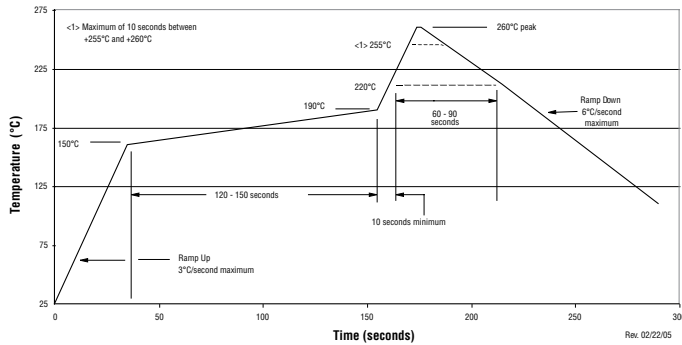


*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.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

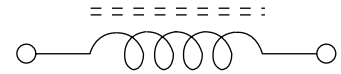
SRR0905 Series - Shielded SMD Power Inductors



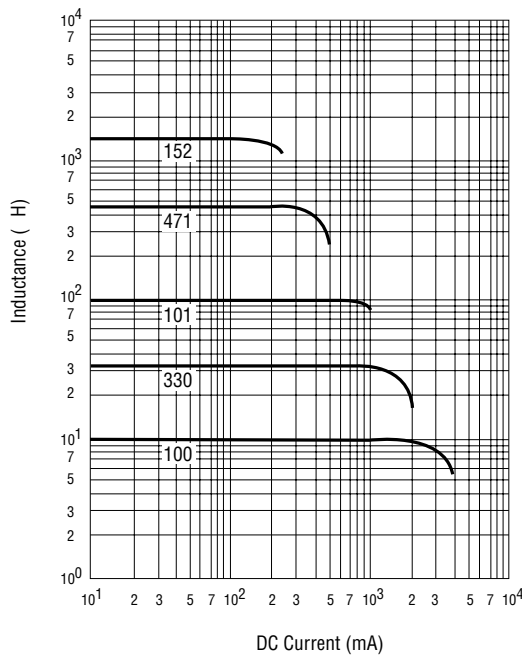
Soldering Profile



Schematic



Inductance vs. Current

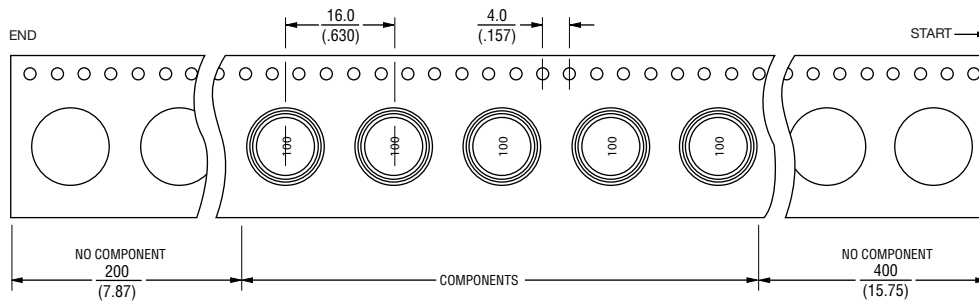
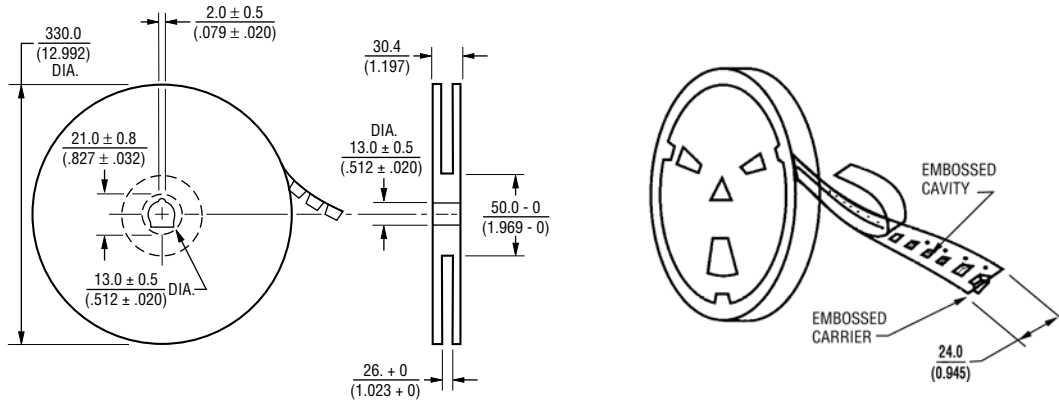


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SRR0905 Series - Shielded SMD Power Inductors

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Packaging Specifications



USER DIRECTION OF FEED →

QTY: 800 PCS. PER REEL

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

REV. 03/17

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