



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

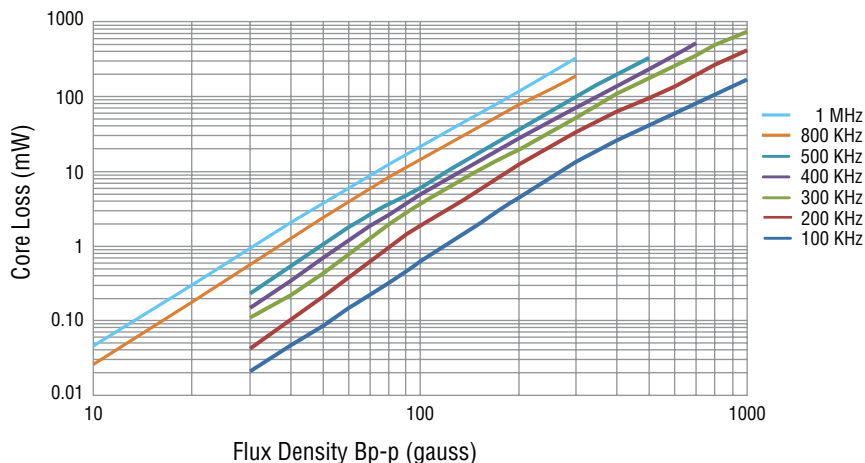
SRR0905 Series - Shielded SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance		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



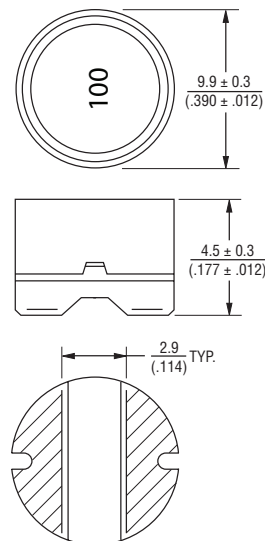
General Specifications

Inductance Test Frequency/Voltage
 SRR0905-100M to -820Y.. 2.52 MHz/1 V
 SRR0905-101K to 471K 1 kHz/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.
 Moisture Sensitivity Level 1
 ESD Classification (HBM)..... N/A

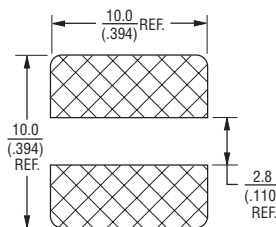
Materials

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



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

*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.

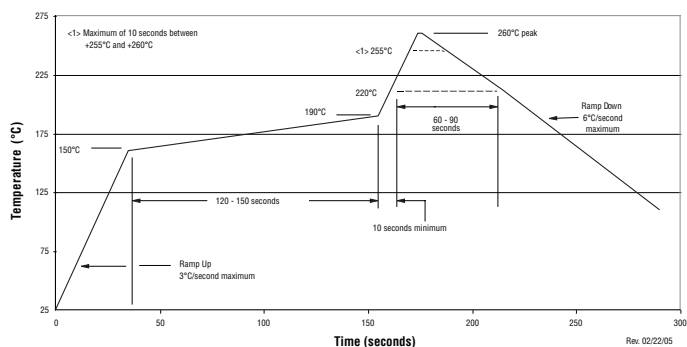
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

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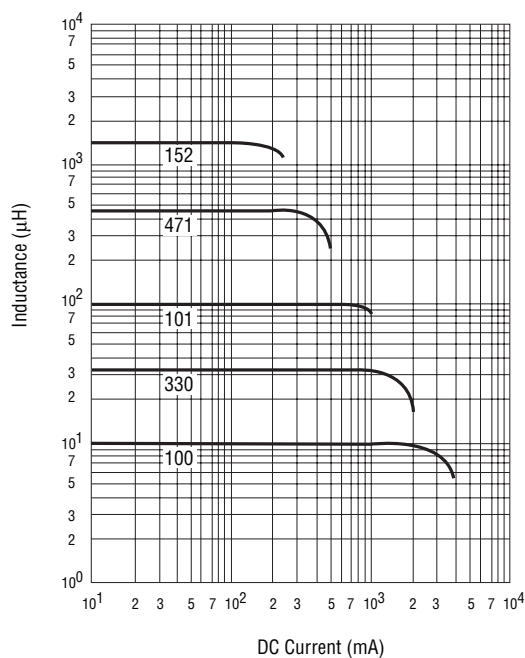
Soldering Profile



Schematic



Inductance vs. Current



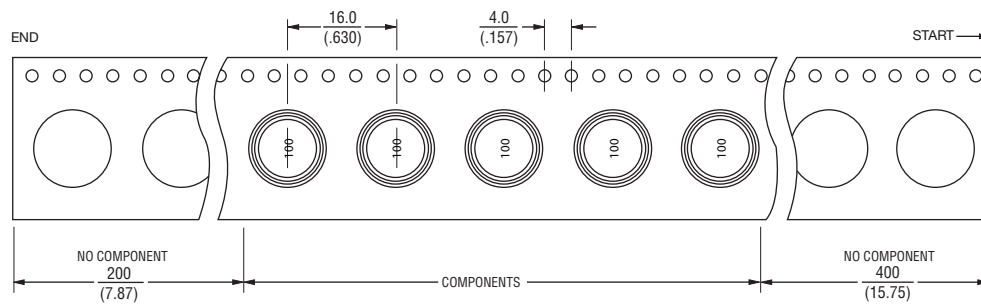
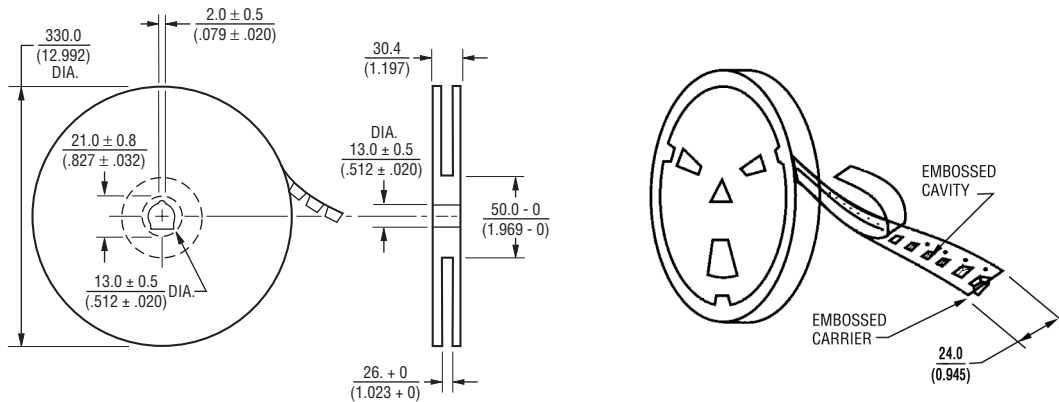
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Packaging Specifications



USER DIRECTION OF FEED

QTY: 800 PCS. PER REEL

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

REV. 08/17

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