



Features

- E6 series optional
- Unit height of 5.5 mm
- Current rating up to 5 A
- J-hook leads
- RoHS compliant*

Applications

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

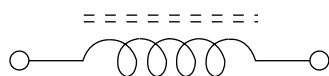
SRR1205 Series - Shielded High Power Inductors

Electrical Characteristics

Bourns Part No.	Inductance 1 KHz		Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. (mΩ)	I rms Max. (A)	I sat Typ. (A)	**K-Factor
	(μH)	Tol. %							
SRR1205-2R5ML	2.5	± 20	18	7.96M	27.0	24	5.00	10.00	75
SRR1205-3R3ML	3.3	± 20	20	7.96M	25.0	30	4.50	9.20	65
SRR1205-5R0ML	5.0	± 20	20	7.96M	21.0	35	4.00	8.20	58
SRR1205-7R5ML	7.5	± 20	20	7.96M	17.0	40	3.50	7.80	47
SRR1205-100ML	10	± 20	21	2.52M	15.0	54	3.00	6.00	39
SRR1205-120ML	12	± 20	20	2.52M	13.0	65	2.80	5.60	36
SRR1205-150ML	15	± 20	20	2.52M	11.0	70	2.70	5.30	34
SRR1205-180ML	18	± 20	20	2.52M	10.0	82	2.60	4.80	30
SRR1205-220ML	22	± 20	19	2.52M	9.0	95	2.40	4.60	26
SRR1205-270ML	27	± 20	18	2.52M	8.0	120	2.00	4.00	23
SRR1205-330ML	33	± 20	18	2.52M	8.0	145	1.80	3.50	22
SRR1205-390ML	39	± 20	18	2.52M	7.5	160	1.65	3.20	20
SRR1205-500YL	50	± 15	18	2.52M	7.0	200	1.50	2.80	17
SRR1205-560YL	56	± 15	18	2.52M	7.0	240	1.40	2.50	17
SRR1205-680YL	68	± 15	17	2.52M	6.5	280	1.30	2.40	15
SRR1205-750YL	75	± 15	17	2.52M	6.0	330	1.20	2.20	14
SRR1205-101KL	100	± 10	12	0.796M	5.0	400	1.00	2.00	12
SRR1205-121KL	120	± 10	10	0.796M	4.5	500	0.90	1.60	11
SRR1205-151KL	150	± 10	10	0.796M	4.0	580	0.80	1.50	10
SRR1205-181KL	180	± 10	9	0.796M	3.5	750	0.70	1.40	9
SRR1205-221KL	220	± 10	9	0.796M	3.0	840	0.65	1.30	8
SRR1205-271KL	270	± 10	9	0.796M	2.5	1000	0.60	1.00	7
SRR1205-331KL	330	± 10	7	0.796M	2.0	1340	0.54	0.88	7
SRR1205-391KL	390	± 10	7	0.796M	2.0	1500	0.50	0.80	6
SRR1205-471KL	470	± 10	7	0.796M	2.0	1980	0.45	0.72	6
SRR1205-561KL	560	± 10	6	0.796M	1.5	2200	0.40	0.65	5
SRR1205-681KL	680	± 10	6	0.796M	1.5	2400	0.35	0.60	5
SRR1205-821KL	820	± 10	5	0.796M	1.0	3000	0.30	0.57	4

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

Schematic



Recommended Layout



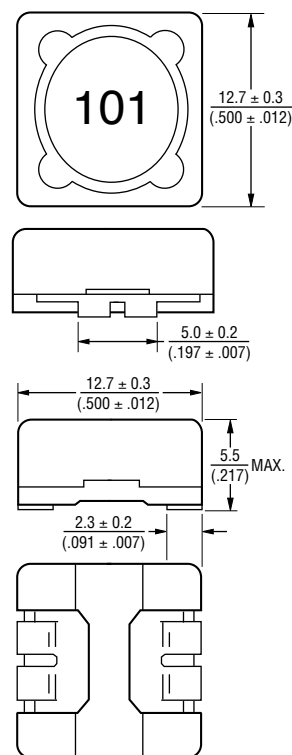
General Specifications

Test Voltage 1 V
 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 10 % typ. at Isat
 Temperature Rise 40 °C max. at rated Irms

Materials

Core Ferrite DR & RI core
 Wire Enamelled copper
 Base LCP E4008
 Terminal Cu/Ni/Sn
 Packaging 600 pcs. per reel

Product Dimensions



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



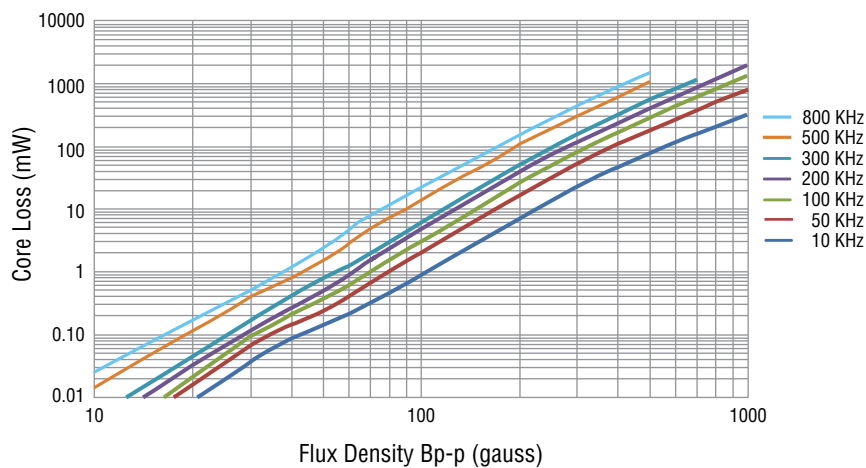
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
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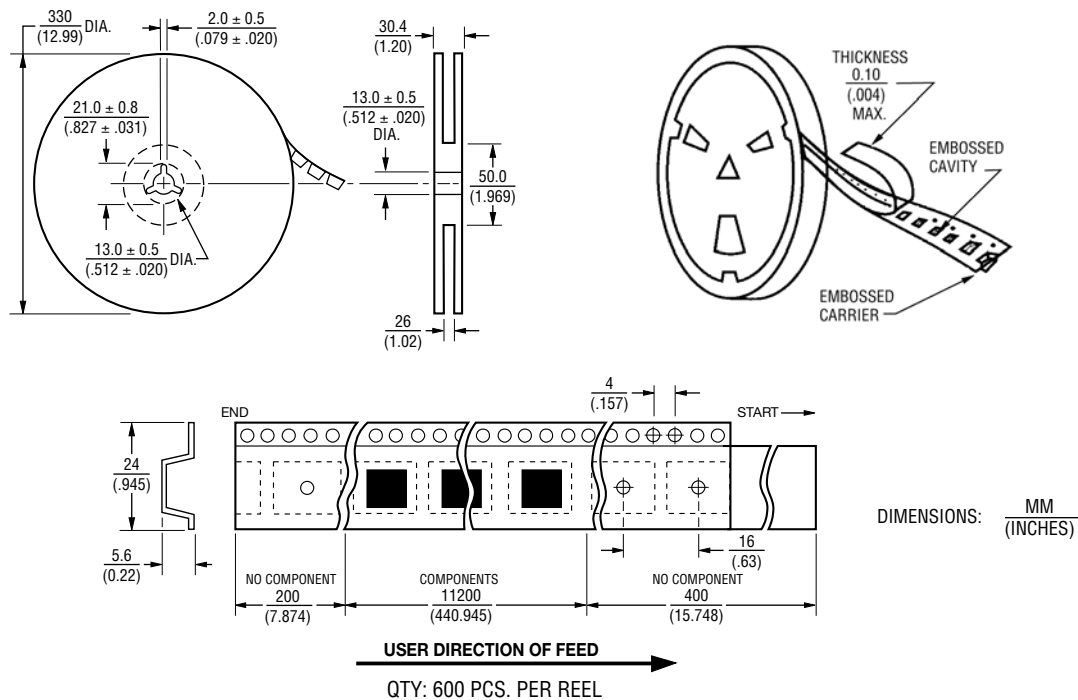
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BOURNS®

Core Loss vs. Flux Density



Packaging Specifications



REV. 03/17

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

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moschip.ru_9