THE DATASHEET OF

SRR0604-1R5ML

Features

- Available in E6 series
- Low unit height of 4.8 mm
- High current
- RoHS compliant*

Applications

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

SRR0604 Series - Shielded Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 1 KHz µH	Inductance 1 KHz Tol. %	Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	I rms Max. (A)	I sat Typ. (A)	**K-Factor
SRR0604-1R5ML	1.5	±20	23	7.96	110.0	0.028	2.80	3.95	351
SRR0604-2R2ML	2.2	±20	21	7.96	100.0	0.032	2.50	3.50	310
SRR0604-2R5ML	2.5	±20	21	7.96	100.0	0.035	2.50	3.50	277
SRR0604-3R3ML	3.3	±20	21	7.96	90.0	0.050	2.30	2.90	251
SRR0604-4R7ML	4.7	±20	10	7.96	50.0	0.060	2.00	2.55	210
SRR0604-6R8ML	6.8	±20	20	7.96	37.0	0.070	1.60	2.05	170
SRR0604-100ML	10	±20	18	2.52	30.0	0.12	1.30	1.80	142
SRR0604-150ML	15	±20	18	2.52	30.0	0.13	1.10	1.45	117
SRR0604-220ML	22	±20	16	2.52	25.0	0.19	0.90	1.20	96
SRR0604-330KL	33	±10	16	2.52	21.0	0.25	0.70	0.95	79
SRR0604-470KL	47	±10	15	2.52	18.0	0.36	0.60	0.80	65
SRR0604-680KL	68	±10	15	2.52	15.0	0.52	0.50	0.68	54
SRR0604-101KL	100	±10	23	0.796	13.0	0.65	0.40	0.57	45
SRR0604-151KL	150	±10	21	0.796	12.0	1.00	0.30	0.47	37
SRR0604-221KL	220	±10	20	0.796	10.0	1.70	0.25	0.32	30
SRR0604-331KL	330	±10	18	0.796	7.0	2.10	0.20	0.28	25
SRR0604-471KL	470	±10	18	0.796	6.5	3.30	0.18	0.22	21
SRR0604-681KL	680	±10	16	0.796	6.0	4.80	0.15	0.19	17
SRR0604-102KL	1000	±10	15	0.252	5.5	6.10	0.12	0.15	14
SRR0604-222KL	2200	±10	80	0.252	0.65	16.0	0.10	0.08	9

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

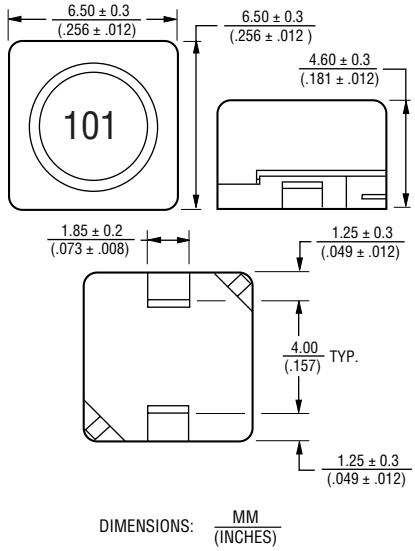
General Specifications

Test Voltage ..... 1 Volt
Operating Temperature
..... -40 °C to +125 °C
(Temperature rise included)
Storage Temperature .. -40 °C to +125 °C
Moisture Sensitivity Level 1
ESD Classification (HBM) ..... N/A

Materials

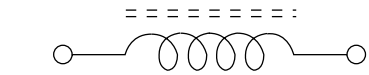
Core ..... Ferrite DR & RI
Wire ..... Enameled copper
Base ..... LCP E4008
Terminal ..... Cu/Ni/Sn
Rated Current
..... Ind. drop of 10 % typ. at Isat
Temperature Rise
..... 40 °C max. at rated Irms
Packaging ..... 1000 pcs. per reel

Product Dimensions

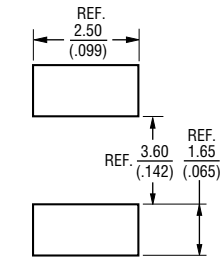


DIMENSIONS: MM (INCHES)

Schematic



Recommended Layout



DIMENSIONS: MM (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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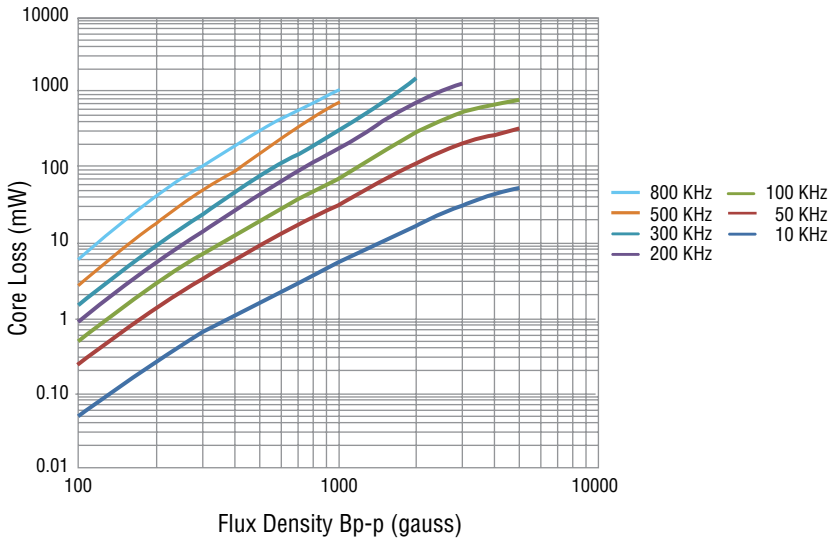
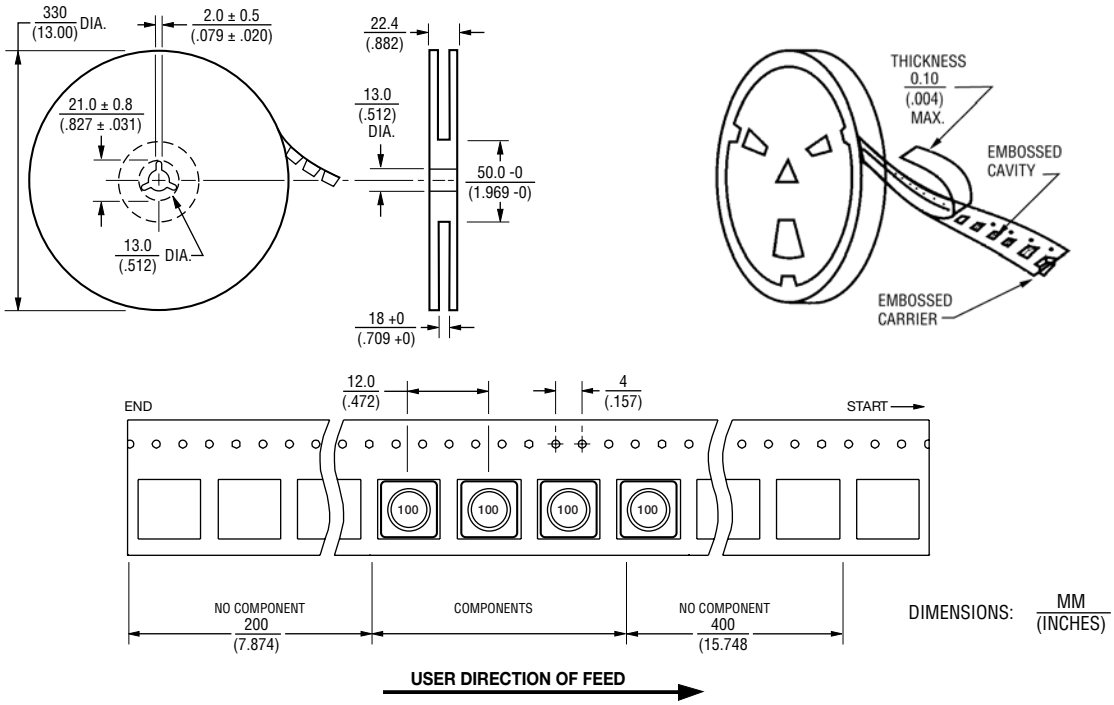
Core Loss vs. Flux Density



Packaging Specifications



QTY: 1000 PCS. PER REEL

REV. 04/19

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