Features

- Available in E6 series
- Low unit height of 3.3 mm
- High current
- RoHS compliant*

Applications

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

SRR0603 Series - Shielded Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 1 KHz µH	Tol. %	Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	I rms Max. (A)	I sat Typ. (A)	**K-Factor
SRR0603-1R5ML	1.5	± 20	20	7.96	95.0	0.032	2.20	3.50	424
SRR0603-2R5ML	2.5	± 20	19	7.96	90.0	0.040	2.00	2.95	335
SRR0603-3R3ML	3.3	± 20	16	7.96	85.0	0.055	1.80	2.60	303
SRR0603-4R7ML	4.7	± 20	13	7.96	45.0	0.070	1.60	2.20	255
SRR0603-6R8ML	6.8	± 20	13	7.96	32.0	0.100	1.20	1.75	205
SRR0603-100ML	10	± 20	16	2.52	25.0	0.12	1.10	1.50	172
SRR0603-150ML	15	± 20	16	2.52	25.0	0.18	0.90	1.20	135
SRR0603-220ML	22	± 20	16	2.52	20.0	0.27	0.70	1.05	112
SRR0603-330KL	33	± 10	15	2.52	16.0	0.43	0.60	0.83	92
SRR0603-470KL	47	± 10	13	2.52	13.0	0.55	0.50	0.73	77
SRR0603-680KL	68	± 10	11	2.52	10.0	0.90	0.40	0.53	64
SRR0603-101KL	100	± 10	22	0.796	9.0	1.50	0.30	0.44	53
SRR0603-151KL	150	± 10	22	0.796	8.0	1.90	0.25	0.39	43
SRR0603-221KL	220	± 10	20	0.796	5.0	2.70	0.20	0.31	36
SRR0603-331KL	330	± 10	18	0.796	4.5	4.20	0.18	0.24	30
SRR0603-471KL	470	± 10	17	0.796	4.0	6.70	0.15	0.19	25
SRR0603-681KL	680	± 10	13	0.796	3.5	10.50	0.12	0.15	20
SRR0603-102KL	1000	± 10	20	0.252	3.0	14.00	0.10	0.13	17

**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.

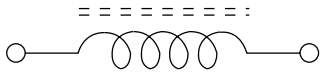
General Specifications

Test Voltage ..... 1 Volt
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

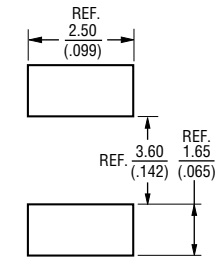
Materials

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

Schematic

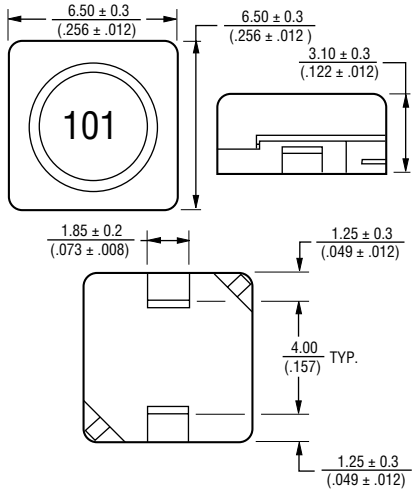


Recommended Layout



DIMENSIONS: MM (INCHES)

Product Dimensions



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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Users should verify actual device performance in their specific applications.
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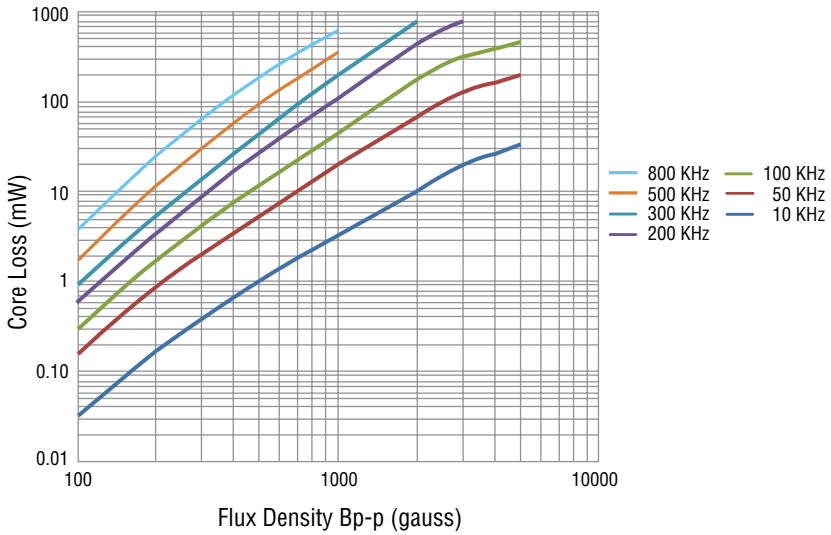
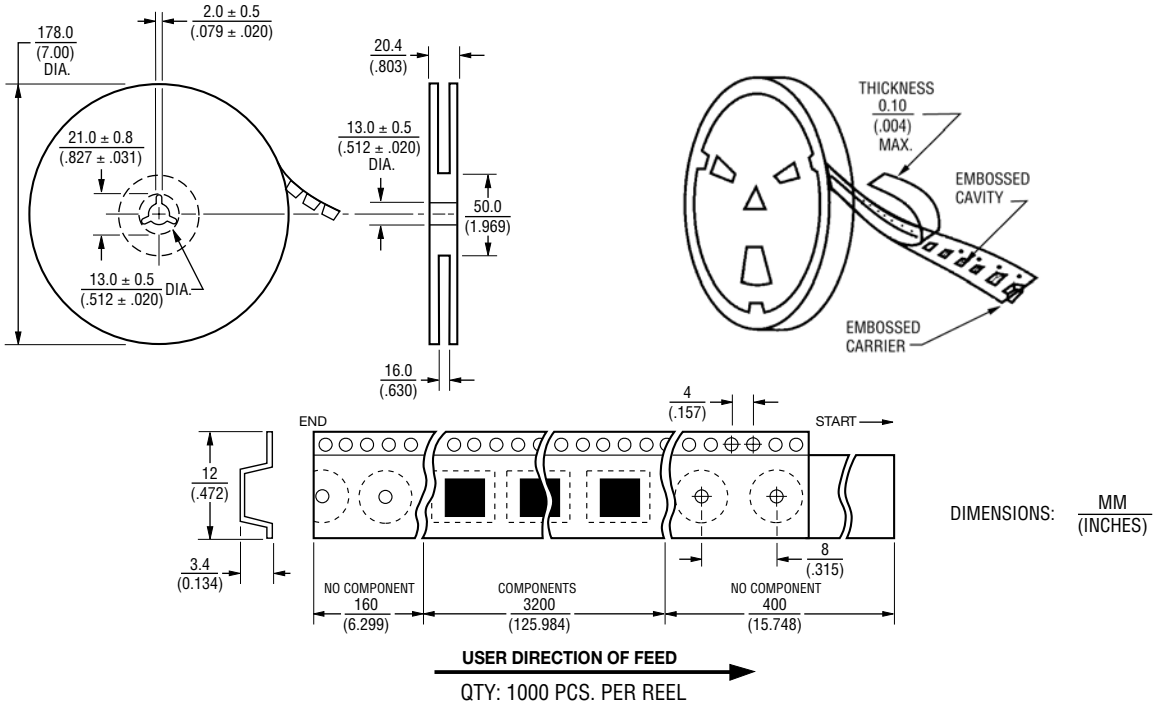
Core Loss vs. Flux Density



Packaging Specifications



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Web Page: http://www.bourns.com/legal/disclaimers-terms-and-policies

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

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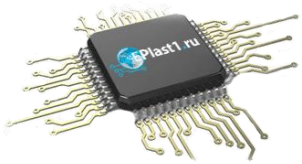
- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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