

Features

- Unit height of 2.9 mm
- Inductance range: 1500 to 10,000 μH
- Rated current up to 0.12 A
- RoHS compliant*

Applications

- DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - · Laptop computers
 - · Camcorders, HDTV

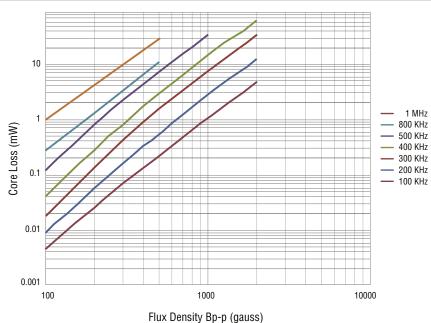
SRE6603 Series - Shielded SMD Power Inductors

Electrical Characteristics

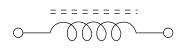
Bourns Part No.	Inductance @ 100 KHz L (μH) ±20 %	Q (Ref.)	Test Freq. (KHz)	SRF (MHz) Typ.	DCR (Ω) Max.	l rms (A)	l sat (A)	**K -Factor
SRE6603-152M	1500	50	100	2	4.2	0.12	0.035	82
SRE6603-222M	2200	50	100	2	8.5	0.10	0.028	68
SRE6603-332M	3300	50	100	1	11	0.08	0.024	53
SRE6603-472M	4700	50	100	1	13.9	0.06	0.021	48
SRE6603-682M	6800	50	100	1	25	0.04	0.019	37
SRE6603-103M	10,000	50	100	0.8	32.8	0.02	0.017	31

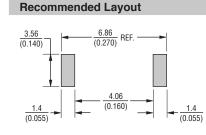
**K-Factor: To calculate core flux density, Bp-p (gauss) = K x L(μH) x ∆ I (peak-to-peak ripple current, A), determine core loss from *Core Loss vs. Flux Density* plot.

Core Loss vs. Flux Density



Schematic





General Specifications

Test Voltage0.1 V Reflow Soldering ... 230 °C, 50 sec max. Operating Temperature

.....-25 °C to +105 °C (Temperature rise included) Storage Temperature

-40 °C to +125 °C Resistance to Soldering Heat

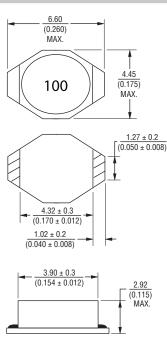
Moisture Sensitivity Level1
ESD Classification (HBM)N/A

Materials

Core	Ferrite
Wire	Enameled copper
Base	Ceramic
Adhesive	Epoxy resin
Terminal	Ag/Ni/Au
Rated Current	-

.....Ind. drop of 30 % typ. at Isat Temperature Rise ...40 °C typical at Irms Packaging..... 2000 pcs. per 13-inch reel

Product Dimensions



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

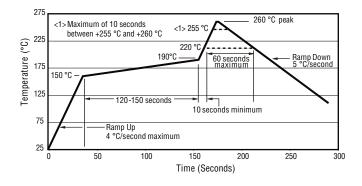


*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

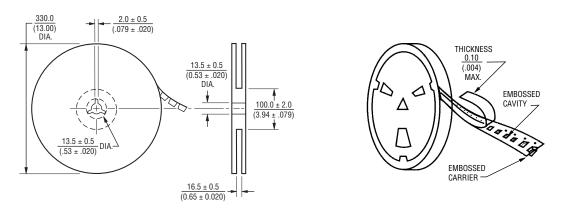
SRE6603 Series - Shielded SMD Power Inductors

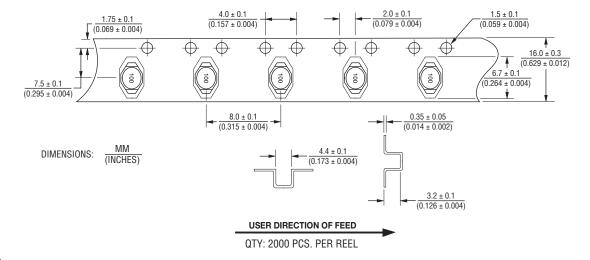
BOURNS

Soldering Profile



Packaging Specifications





REV. 03/18

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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