



Features

- Unit height of 2.9 mm
- Inductance range: 1 to 10,000 μ H
- Rated current up to 3 A
- RoHS compliant*



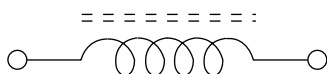
Models SRE6603-1R0M through SRE6603-102M are currently available, but not recommended for new designs. Model **SRR6603** is the replacement with same form and function but the fit may be slightly taller.

SRE6603 Series - Shielded SMD Power Inductors

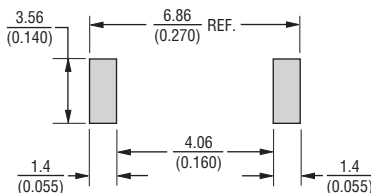
Electrical Characteristics

Bourns Part No.	Inductance @ 100 KHz L (μ H) $\pm 20\%$	Q (Ref.)	Test Frequency (KHz)	SRF (MHz) Typ.	DCR (Ω) Max.	I rms (A)	I sat (A)
SRE6603-1R0M	1.0	30	200	250	0.040	3.0	1.4
SRE6603-1R5M	1.5	30	200	125	0.045	2.8	0.93
SRE6603-2R2M	2.2	40	200	120	0.05	1.8	0.92
SRE6603-3R3M	3.3	40	200	120	0.055	1.6	0.75
SRE6603-4R7M	4.7	40	200	105	0.06	1.4	0.58
SRE6603-6R8M	6.8	40	200	50	0.065	1.2	0.58
SRE6603-100M	10	40	200	38	0.075	1.0	0.37
SRE6603-150M	15	40	100	33	0.09	0.80	0.31
SRE6603-220M	22	40	100	25	0.11	0.70	0.30
SRE6603-330M	33	40	100	20	0.19	0.60	0.24
SRE6603-470M	47	40	100	20	0.23	0.50	0.24
SRE6603-680M	68	40	100	15	0.29	0.40	0.17
SRE6603-101M	100	40	100	10	0.48	0.30	0.13
SRE6603-151M	150	40	100	9	0.59	0.26	0.10
SRE6603-221M	220	40	100	6	0.77	0.22	0.10
SRE6603-331M	330	40	100	5	1.4	0.20	0.07
SRE6603-471M	470	40	100	4	1.8	0.19	0.06
SRE6603-681M	680	40	100	3	2.2	0.18	0.055
SRE6603-102M	1000	40	100	2	3.4	0.15	0.045
SRE6603-152M	1500	50	100	2	4.2	0.12	0.035
SRE6603-222M	2200	50	100	2	8.5	0.10	0.028
SRE6603-332M	3300	50	100	1	11	0.08	0.024
SRE6603-472M	4700	50	100	1	13.9	0.06	0.021
SRE6603-682M	6800	50	100	1	25	0.04	0.019
SRE6603-103M	10,000	50	100	0.8	32.8	0.02	0.017

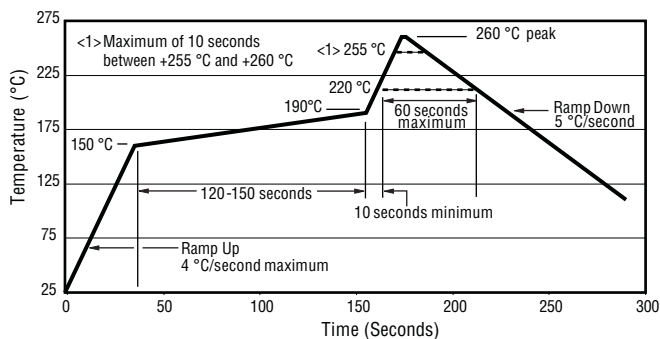
Schematic



Recommended Layout



Soldering Profile



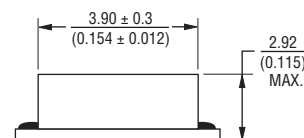
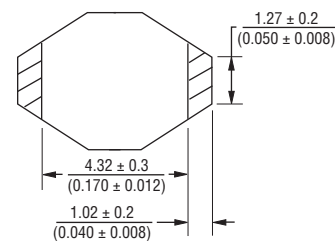
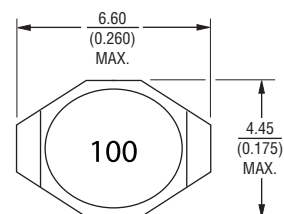
General Specifications

Test Voltage 0.1 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 260 °C for 10 sec.

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

*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.

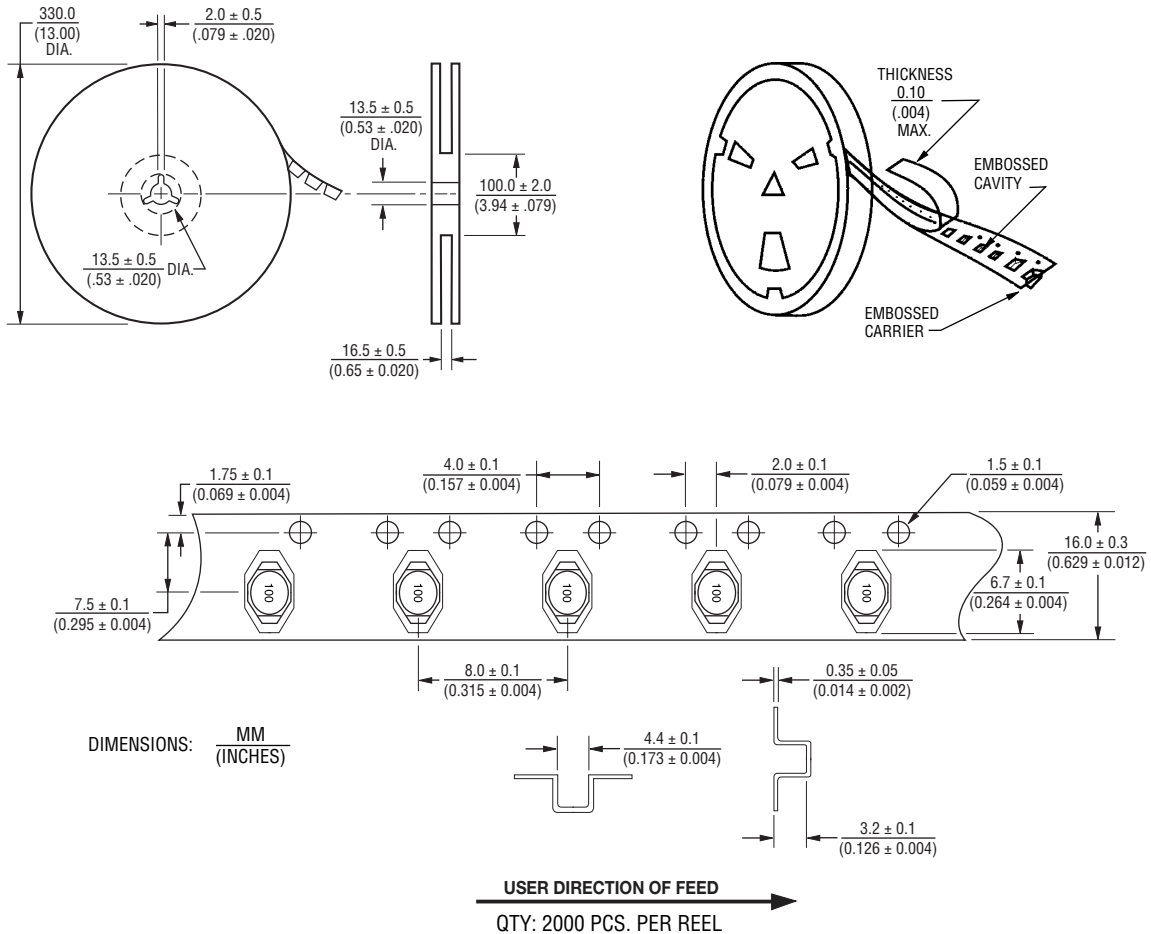
Applications

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

SRE6603 Series - Shielded SMD Power Inductors

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Packaging Specifications



BOURNS®

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REV. 05/13

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