

## **Features**

- Height of 2.92 mm
- Current rating up to 2.9 amps
- RoHS compliant\*

# **Applications**

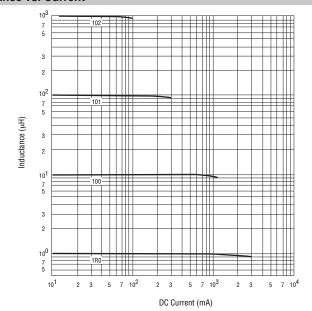
- Input/output of DC/DC converters
- Power supplies for:
  - · Portable communications equipment
  - Camcorders
  - LCD TVs

# **SDR6603 Series - SMD Power Inductors**

#### **Electrical Specifications**

D	Inductance 100 kHz			Test	SRF	RDC	Irms	I sat
Bourns Part Number	(μH)	Tol. %	Q Ref.	Frequency (MHz)	Typ. (MHz)	Max. (Ω)	Max. (A)	Тур. (A)
SDR6603-1R0M	1.0	± 20	20	7.96	130	0.05	2.9	2.9
SDR6603-1R5M	1.5	± 20	19	7.96	115	0.05	2.8	2.6
SDR6603-2R2M	2.2	± 20	18	7.96	90	0.07	2.4	2.3
SDR6603-3R3M	3.3	± 20	18.5	7.96	70	0.08	2.0	2.0
SDR6603-4R7M	4.7	± 20	17	7.96	50	0.09	1.5	1.5
SDR6603-6R8M	6.8	± 20	15.5	7.96	45	0.13	1.4	1.2
SDR6603-8R2M	8.2	± 20	10	7.96	40	0.16	1.3	1.15
SDR6603-100M	10	± 20	17	2.52	35	0.16	1.1	1.1
SDR6603-150M	15	± 20	17	2.52	30	0.23	1.0	0.90
SDR6603-220M	22	± 20	16	2.52	20	0.37	0.80	0.70
SDR6603-330M	33	± 20	24	2.52	15	0.51	0.60	0.58
SDR6603-470M	47	± 20	15	2.52	14	0.64	0.50	0.50
SDR6603-680M	68	± 20	18	2.52	11	0.86	0.40	0.40
SDR6603-820M	82	± 20	10	2.52	10	1.18	0.35	0.35
SDR6603-101M	100	± 20	29	0.796	9	1.3	0.30	0.31
SDR6603-151M	150	± 20	41	0.796	6	2.0	0.25	0.27
SDR6603-221M	220	± 15	33	0.796	5.5	3.2	0.20	0.22
SDR6603-331M	330	± 15	42	0.796	5	3.8	0.16	0.18
SDR6603-471M	470	± 15	42	0.796	4	5.1	0.15	0.16
SDR6603-681M	680	± 15	58	0.796	3	9.2	0.12	0.14
SDR6603-821M	820	± 15	40	0.796	2.5	12.6	0.10	0.12
SDR6603-102M	1000	± 15	71	0.252	2	13.8	0.07	0.10

## Inductance vs. Current





# 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. 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

### **General Specifications**

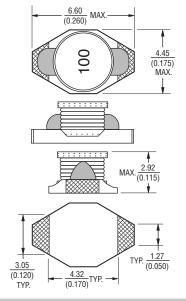
Test Voltage ......0.1 V Reflow Soldering ... 230 °C, 50 sec. max Operating Temp.....-40 °C to +125 °C (Temperature rise included) Storage Temperature.. -40 °C to +125 °C Resistance to Soldering Heat Moisture Sensitivity Level...... 1 ESD Classification (HBM).....N/A

#### **Materials**

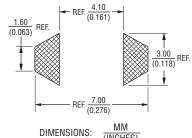
Core ......Ferrite Wire ......Enamelled copper Base ......Ceramic Adhesive..... Epoxy resin Terminal.....Ag/Ni/Au Rated Current

......Ind. drop 10 % typ. at Isat Temp. Rise ... 15 °C typical at rated Irms Packaging......600 pcs. per reel

#### **Product Dimensions**



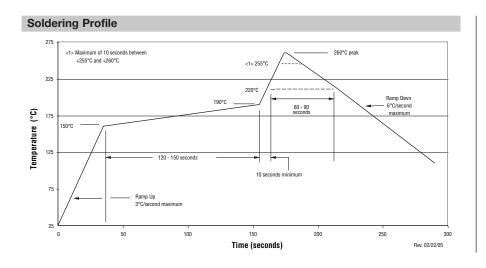
## **Recommended Layout**

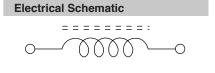


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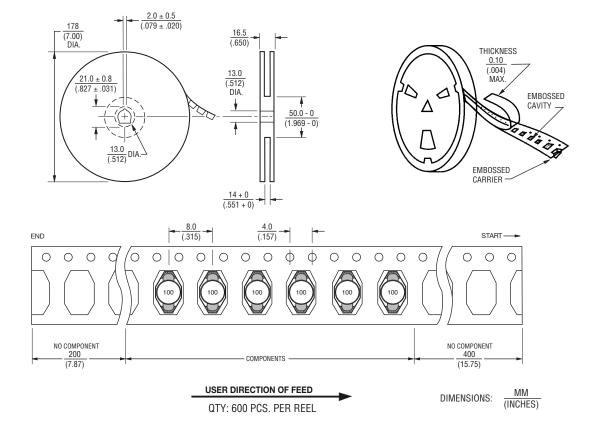
# **SDR6603 Series - SMD Power Inductors**

# BOURNS





## **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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