

### Features

- Available in E12 series
- Small diameter of only 5.8 mm max.
- Profile of 4.8 mm
- RoHS compliant\*

## **Applications**

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

# **SDR0604 Series - SMD Power Inductors**

#### **Electrical Specifications**

Bourns	Inductance 100 kHz			Test	SRF Min.	RDC Max.	l rms Max.	l sat
Part Number	(µH)	Tol. %	Q Ref.	Frequency (MHz)	(MHz)	wax. (Ω)	(A)	Тур. (А)
SDR0604-1R2ML	1.2	± 20	35	7.96	155	0.02	4.2	7.30
SDR0604-1R5ML	1.5	± 20	32	7.96	108	0.03	3.60	6.10
SDR0604-2R2ML	2.2	± 20	33	7.96	79	0.06	2.80	5.10
SDR0604-2R7ML	2.7	± 20	22	7.96	65	0.06	2.30	3.80
SDR0604-3R3ML	3.3	± 20	22	7.96	60	0.07	2.00	3.50
SDR0604-3R9ML	3.9	± 20	22	7.96	40	0.07	1.90	3.20
SDR0604-4R7ML	4.7	± 20	20	7.96	34	0.08	1.80	3.00
SDR0604-5R6ML	5.6	± 20	20	7.96	30	0.08	1.70	2.70
SDR0604-6R8ML	6.8	± 20	20	7.96	28	0.12	1.60	2.50
SDR0604-8R2ML	8.2	± 20	20	7.96	26	0.09	1.50	2.30
SDR0604-100ML	10	± 20	30	2.52	23	0.10	1.45	2.00
SDR0604-120ML	12	± 20	30	2.52	22	0.12	1.40	1.90
SDR0604- 150YL	15	± 15	30	2.52	20	0.14	1.30	1.60
SDR0604- 180YL	18	± 15	30	2.52	18	0.15	1.25	1.50
SDR0604- 220YL	22	± 15	30	2.52	16	0.19	1.10	1.40
SDR0604- 270YL	27	± 15	28	2.52	14	0.22	1.00	1.30
SDR0604- 330KL	33	± 10	24	2.52	13	0.25	0.88	1.10
SDR0604- 390KL	39	± 10	24	2.52	13	0.32	0.80	1.00
SDR0604- 470KL	47	± 10	22	2.52	12	0.37	0.72	1.00
SDR0604- 560KL	56	± 10	22	2.52	11	0.42	0.68	0.90
SDR0604- 680KL	68	± 10	22	2.52	10	0.52	0.62	0.84
SDR0604- 820KL	82	± 10	20	2.52	9	0.60	0.58	0.75
SDR0604- 101KL	100	± 10	20	0.796	9	0.70	0.52	0.68
SDR0604- 121KL	120	± 10	22	0.796	7	0.93	0.48	0.60
SDR0604- 151KL	150	± 10	20	0.796	6	1.10	0.40	0.54
SDR0604- 181KL	180	± 10	20	0.796	6	1.38	0.38	0.50
SDR0604- 221KL	220	± 10	20	0.796	6	1.57	0.35	0.44
SDR0604- 271KL	270	± 10	26	0.796	4	1.88	0.32	0.40
SDR0604- 331KL	330	± 10	25	0.796	3	2.25	0.27	0.36
SDR0604- 391KL	390	± 10	25	0.796	3	2.48	0.25	0.34
SDR0604- 471KL	470	± 10	25	0.796	3	3.30	0.21	0.30
SDR0604- 561KL	560	± 10	24	0.252	3	4.00	0.18	0.26
SDR0604- 681KL	680	± 10	26	0.252	2	4.65	0.16	0.25
SDR0604- 821KL	820	± 10	25	0.252	2	5.20	0.14	0.20
SDR0604- 102KL	1000	± 10	45	0.252	1.5	6.80	0.12	0.12

**Typical Part Marking** 

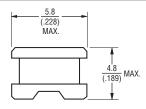
101

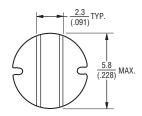
#### **General Specifications**

Test Voltage
(Temperature rise included)
Storage Temperature40 °C to +125 °C
Resistance to Soldering Heat
+260 °C for 5 sec
Moisture Sensitivity Level1
ESD Classification (HBM)N/A
Materials

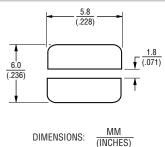
#### Core ...... Ferrite DR core Wire ......Enameled copper Terminal .......Ag/Ni/Sn Rated Current .. Ind. drop 10 % typ. at Isat Temperature Rise

#### **Product Dimensions**





**Recommended Layout** 



#### **Electrical Schematic**



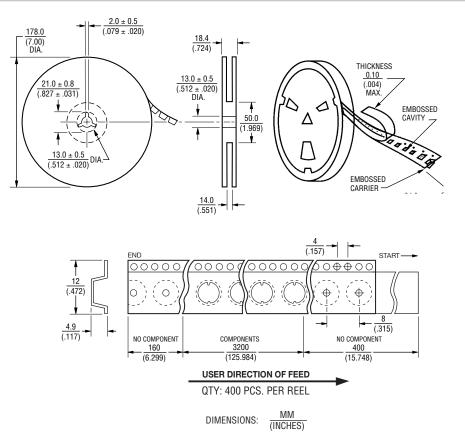


\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific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

# **SDR0604 Series - SMD Power Inductors**

## BOURNS

**Packaging Specifications** 



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