



Features

- Available in E12 series
- Small diameter of only 5.8 mm maximum
- Profile of 4.8 mm
- Lead free version available (see How to Order)
- Lead free versions are RoHS compliant*

Applications

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

SDR0604 Series - SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 1kHz		Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC (Ω)	I rms Max. (A)	I sat Typ. (A)
	(μH)	Tol. %						
SDR0604- 1R2M_	1.2	± 20	35	7.96	155	0.02	4.2	7.30
SDR0604- 1R5M_	1.5	± 20	32	7.96	108	0.03	3.60	6.10
SDR0604- 2R2M_	2.2	± 20	33	7.96	79	0.06	2.80	5.10
SDR0604- 2R7M_	2.7	± 20	22	7.96	65	0.06	2.30	3.80
SDR0604- 3R3M_	3.3	± 20	22	7.96	60	0.07	2.00	3.50
SDR0604- 3R9M_	3.9	± 20	22	7.96	40	0.07	1.90	3.20
SDR0604- 4R7M_	4.7	± 20	20	7.96	34	0.08	1.80	3.00
SDR0604- 5R6M_	5.6	± 20	20	7.96	30	0.08	1.70	2.70
SDR0604- 6R8M_	6.8	± 20	20	7.96	28	0.12	1.60	2.50
SDR0604- 8R2M_	8.2	± 20	20	7.96	26	0.09	1.50	2.30
SDR0604- 100M_	10	± 20	30	2.52	23	0.10	1.45	2.00
SDR0604- 120M_	12	± 20	30	2.52	22	0.12	1.40	1.90
SDR0604- 150Y_	15	± 15	30	2.52	20	0.14	1.30	1.60
SDR0604- 180Y_	18	± 15	30	2.52	18	0.15	1.25	1.50
SDR0604- 220Y_	22	± 15	30	2.52	16	0.19	1.10	1.40
SDR0604- 270Y_	27	± 15	28	2.52	14	0.22	1.00	1.30
SDR0604- 330K_	33	± 10	24	2.52	13	0.25	0.88	1.10
SDR0604- 390K_	39	± 10	24	2.52	13	0.32	0.80	1.00
SDR0604- 470K_	47	± 10	22	2.52	12	0.37	0.72	1.00
SDR0604- 560K_	56	± 10	22	2.52	11	0.42	0.68	0.90
SDR0604- 680K_	68	± 10	22	2.52	10	0.52	0.62	0.84
SDR0604- 820K_	82	± 10	20	2.52	9	0.60	0.58	0.75
SDR0604- 101K_	100	± 10	20	0.796	9	0.70	0.52	0.68
SDR0604- 121K_	120	± 10	22	0.796	7	0.93	0.48	0.60
SDR0604- 151K_	150	± 10	20	0.796	6	1.10	0.40	0.54
SDR0604- 181K_	180	± 10	20	0.796	6	1.38	0.38	0.50
SDR0604- 221K_	220	± 10	20	0.796	6	1.57	0.35	0.44
SDR0604- 271K_	270	± 10	26	0.796	4	1.88	0.32	0.40
SDR0604- 331K_	330	± 10	25	0.796	3	2.25	0.27	0.36
SDR0604- 391K_	390	± 10	25	0.796	3	2.48	0.25	0.34
SDR0604- 471K_	470	± 10	25	0.796	3	3.30	0.21	0.30
SDR0604- 561K_	560	± 10	24	0.252	3	4.00	0.18	0.26
SDR0604- 681K_	680	± 10	26	0.252	2	4.65	0.16	0.25
SDR0604- 821K_	820	± 10	25	0.252	2	5.20	0.14	0.20

How to Order

SDR0604 - 100M

Model _____
 Value/Tolerance: from table _____
 Termination _____
 L = Ag/Ni/Sn
 Blank = Ag/Ni/SnPb

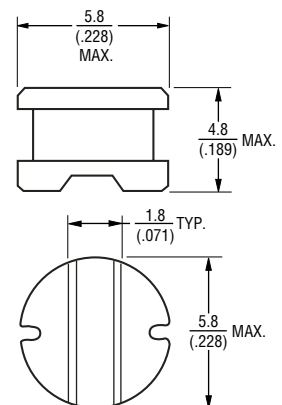
General Specifications

Test Voltage1 V
 Reflow soldering230 °C; 10 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.

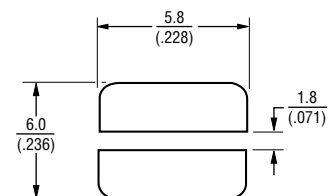
Materials

Core.....Ferrite DR core
 WireEnameled copper
 Terminal Electrode:See How to Order
 Rated Current...Ind. drop 10 % typ. at Isat
 Temperature Rise
40 °C max. at rated I rms
 Packaging.....400 pcs. per reel

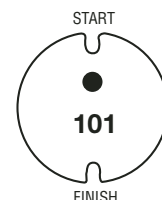
Product Dimensions



Recommended Layout



Typical Part Marking



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

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BOURNS®

Packaging Specifications

