



## Features

- Available in E12 series
- Small diameter of only 5.8mm maximum

## 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.	L ( $\mu$ H)	Q Nom.	Test Frequency Hz		SRF Typ. (MHz)	RDC Max. ( $\Omega$ )	IDC Max. (A)
			L	Q			
SDR0604-1R0M	1.0 $\pm$ 20%	35	1000	7.96M	155.0	0.020	4.20
-1R5M	1.5 $\pm$ 20%	34	1000	7.96M	108.0	0.024	3.60
-2R2M	2.2 $\pm$ 20%	33	1000	7.96M	79.0	0.031	2.80
-2R7M	2.7 $\pm$ 20%	22	1000	7.96M	65.0	0.055	2.30
-3R3M	3.3 $\pm$ 20%	22	1000	7.96M	60.0	0.060	2.00
-4R7M	4.7 $\pm$ 20%	20	1000	7.96M	34.0	0.070	1.80
-5R6M	5.6 $\pm$ 20%	20	1000	7.96M	30.0	0.075	1.70
-6R8M	6.8 $\pm$ 20%	20	1000	7.96M	28.0	0.080	1.60
-8R2M	8.2 $\pm$ 20%	20	1000	7.96M	26.0	0.090	1.50
-100M	10 $\pm$ 20%	30	1000	2.52M	23.0	0.100	1.45
-120M	12 $\pm$ 20%	30	1000	2.52M	22.0	0.120	1.40
-150Y	15 $\pm$ 15%	30	1000	2.52M	20.0	0.140	1.30
-180Y	18 $\pm$ 15%	30	1000	2.52M	18.0	0.150	1.25
-220Y	22 $\pm$ 15%	30	1000	2.52M	16.0	0.190	1.10
-270Y	27 $\pm$ 15%	28	1000	2.52M	14.0	0.220	1.00
-330K	33 $\pm$ 10%	24	1000	2.52M	13.0	0.250	0.88
-390K	39 $\pm$ 10%	24	1000	2.52M	13.0	0.320	0.80
-470K	47 $\pm$ 10%	22	1000	2.52M	12.0	0.370	0.72
-560K	56 $\pm$ 10%	22	1000	2.52M	11.0	0.420	0.68
-680K	68 $\pm$ 10%	22	1000	2.52M	10.0	0.520	0.62
-820K	82 $\pm$ 10%	22	1000	2.52M	9.0	0.600	0.58
-101K	100 $\pm$ 10%	22	1000	0.796M	8.5	0.700	0.52
-121K	120 $\pm$ 10%	22	1000	0.796M	6.6	0.930	0.48
-151K	150 $\pm$ 10%	22	1000	0.796M	6.2	1.100	0.40
-181K	180 $\pm$ 10%	20	1000	0.796M	6.0	1.380	0.38
-221K	220 $\pm$ 10%	20	1000	0.796M	5.6	1.570	0.35
-271K	270 $\pm$ 10%	26	1000	0.796M	3.9	1.880	0.32
-331K	330 $\pm$ 10%	25	1000	0.796M	3.3	2.250	0.27
-391K	390 $\pm$ 10%	25	1000	0.796M	3.1	2.480	0.25
-471K	470 $\pm$ 10%	25	1000	0.796M	2.9	3.300	0.21
-561K	560 $\pm$ 10%	24	1000	0.796M	2.5	4.000	0.18
-681K	680 $\pm$ 10%	26	1000	0.796M	2.3	4.650	0.16
-821K	820 $\pm$ 10%	25	1000	0.796M	2.0	5.200	0.14

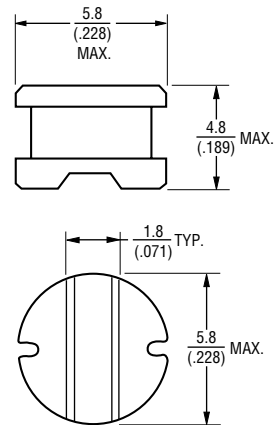
### General Specifications

Test Voltage .....1V  
 Reflow soldering .....230°C; 10 sec max.  
 Operating Temperature ...-40°C to +105°C  
 Storage Temperature ....-40°C to +125°C

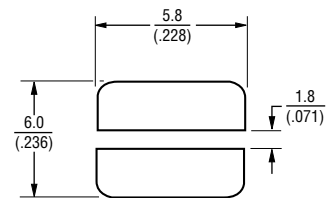
### Materials

Core.....Ferrite DR core  
 Wire .....Enamelled copper  
 Terminal Electrode: .....Ag & Sn/Pb  
 Temperature Rise .....40°C max.  
 at rated IDC  
 Packaging.....400 pcs. per reel

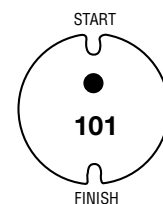
### Product Dimensions



### Recommended Layout



### Typical Part Marking



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## Packaging Specifications

