



Features

- Available in E12 series
- Low profile of only 2.5 mm
- Low inductance values
- RoHS compliant*

Applications

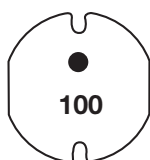
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs
 - Car radios

SDR0302 Series - SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 1kHz		Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	I rms Max. (A)	I sat Typ. (A)
	(μH)	Tol. %						
SDR0302-1R0ML	1.0	± 20	20	7.96	125.0	0.06	2.100	2.700
SDR0302-1R2ML	1.2	± 20	22	7.96	100.0	0.07	2.000	2.500
SDR0302-1R4ML	1.4	± 20	22	7.96	95.0	0.07	1.500	2.300
SDR0302-1R5ML	1.5	± 20	23	7.96	95.0	0.07	1.900	2.300
SDR0302-1R8ML	1.8	± 20	23	7.96	85.0	0.08	1.800	2.000
SDR0302-2R2ML	2.2	± 20	22	7.96	75.0	0.09	1.650	1.850
SDR0302-2R7ML	2.7	± 20	22	7.96	72.0	0.10	1.500	1.700
SDR0302-3R3ML	3.3	± 20	23	7.96	68.0	0.11	1.400	1.600
SDR0302-3R9ML	3.9	± 20	24	7.96	50.0	0.12	1.300	1.500
SDR0302-4R7ML	4.7	± 20	18	7.96	45.0	0.15	1.200	1.350
SDR0302-5R6ML	5.6	± 20	18	7.96	42.0	0.16	1.100	1.300
SDR0302-6R8ML	6.8	± 20	18	7.96	40.0	0.18	1.000	1.200
SDR0302-8R2ML	8.2	± 20	16	7.96	35.0	0.20	0.900	1.050
SDR0302-100ML	10.0	± 20	18	2.52	34.0	0.25	0.800	0.900
SDR0302-120ML	12.0	± 20	15	2.52	33.0	0.28	0.750	0.850
SDR0302-150ML	15.0	± 20	20	2.52	32.0	0.40	0.650	0.800
SDR0302-180ML	18.0	± 20	18	2.52	28.0	0.46	0.580	0.750
SDR0302-220ML	22.0	± 20	23	2.52	22.0	0.66	0.520	0.650
SDR0302-270ML	27.0	± 20	23	2.52	20.0	0.75	0.480	0.550
SDR0302-330KL	33.0	± 10	20	2.52	18.0	0.85	0.420	0.500
SDR0302-390KL	39.0	± 10	24	2.52	18.0	1.12	0.380	0.450
SDR0302-470KL	47.0	± 10	23	2.52	17.0	1.27	0.360	0.400
SDR0302-560KL	56.0	± 10	18	2.52	16.0	1.45	0.340	0.350
SDR0302-680KL	68.0	± 10	24	2.52	14.0	1.85	0.300	0.320
SDR0302-820KL	82.0	± 10	24	2.52	12.0	2.10	0.280	0.300
SDR0302-101KL	100.0	± 10	40	0.796	10.0	2.85	0.260	0.280
SDR0302-121KL	120.0	± 10	40	0.796	10.0	3.20	0.220	0.250
SDR0302-151KL	150.0	± 10	38	0.796	9.0	4.60	0.200	0.230
SDR0302-181KL	180.0	± 10	45	0.796	8.5	5.00	0.185	0.210
SDR0302-221KL	220.0	± 10	40	0.796	8.0	5.70	0.170	0.190
SDR0302-271KL	270.0	± 10	45	0.796	7.0	8.60	0.150	0.170
SDR0302-331KL	330.0	± 10	40	0.796	6.0	10.00	0.130	0.150
SDR0302-391KL	390.0	± 10	40	0.796	5.5	10.80	0.120	0.140
SDR0302-471KL	470.0	± 10	42	0.796	5.0	14.30	0.105	0.130
SDR0302-561KL	560.0	± 10	43	0.796	4.8	16.00	0.095	0.120
SDR0302-681KL	680.0	± 10	43	0.796	4.3	18.00	0.085	0.110
SDR0302-821KL	820.0	± 10	45	0.796	4.0	22.50	0.080	0.100
SDR0302-102KL	1000.0	± 10	40	0.252	3.2	26.00	0.070	0.090
SDR0302-122KL	1200.0	± 10	40	0.252	3.0	30.00	0.060	0.080

Typical Part Marking



Electrical Schematic



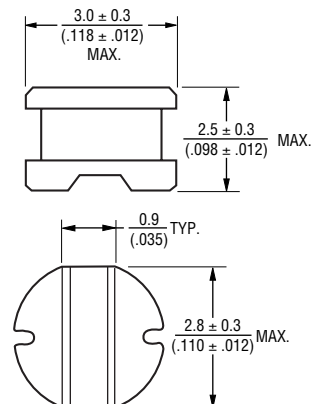
General Specifications

Test Voltage.....1 V
 Reflow Soldering ...230 °C, 50 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.

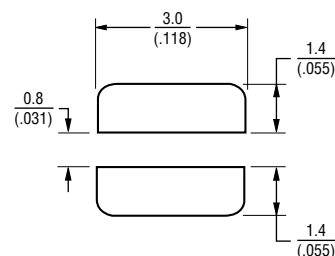
Materials

CoreFerrite DR
 WireEnameled copper wire 130
 Terminal.....Ag/Ni/Sn
 Rated Current
Ind. drop 10 % typ. at Isat
 Temperature Rise40 °C max.
 at rated Irms
 Packaging2000 pcs. per reel

Product Dimensions



Recommended Layout

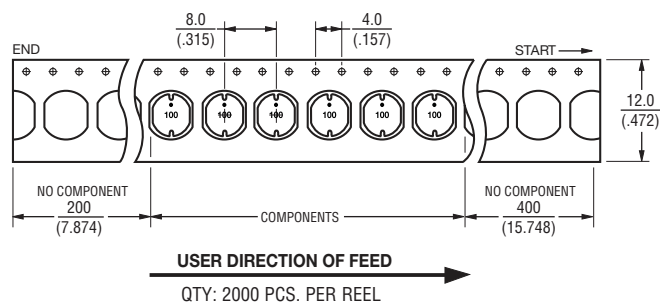
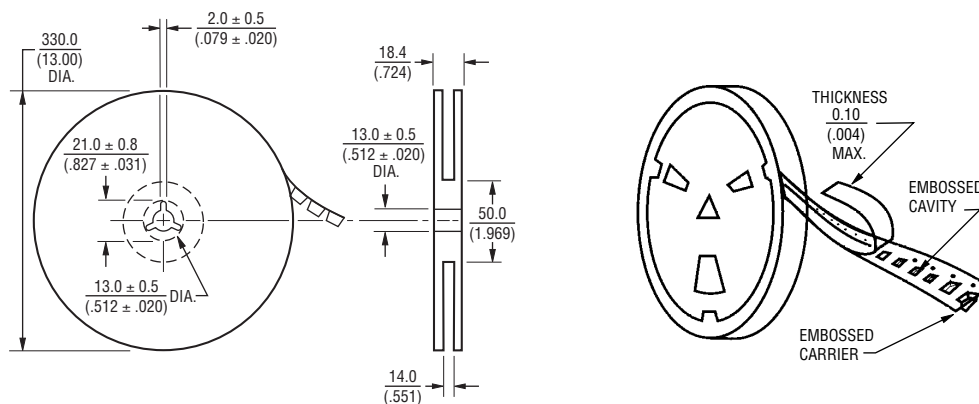


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

SDR0302 Series - SMD Power Inductors

BOURNS®

Packaging Specifications



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