



Features

- Available in E12 series
- Low profile of only 3.2 mm
- Low inductance values
- RoHS compliant*

Applications

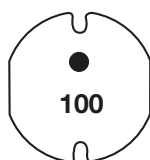
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communications equipment
 - Camcorders
 - LCD TVs

SDR0403 Series - SMD Power Inductors

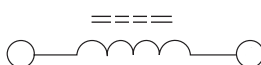
Electrical Specifications

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. %						
SDR0403-1R0ML	1.0	± 20	28	7.96	150	0.033	3.80	5.50
SDR0403-1R4ML	1.4	± 20	28	7.96	110	0.038	3.30	5.10
SDR0403-1R8ML	1.8	± 20	28	7.96	90	0.042	2.91	4.40
SDR0403-2R2ML	2.2	± 20	28	7.96	80	0.047	2.60	3.90
SDR0403-2R7ML	2.7	± 20	28	7.96	75	0.052	2.43	3.50
SDR0403-3R3ML	3.3	± 20	28	7.96	65	0.058	2.15	3.00
SDR0403-3R9ML	3.9	± 20	28	7.96	55	0.076	1.98	2.70
SDR0403-4R7ML	4.7	± 20	28	7.96	50	0.094	1.70	2.60
SDR0403-5R6ML	5.6	± 20	28	7.96	45	0.10	1.60	2.40
SDR0403-6R8ML	6.8	± 20	28	7.96	40	0.12	1.41	2.10
SDR0403-8R2ML	8.2	± 20	28	7.96	36	0.13	1.26	1.90
SDR0403-100ML	10	± 20	28	2.52	33	0.18	1.15	1.70
SDR0403-120ML	12	± 20	28	2.52	30	0.21	1.05	1.60
SDR0403-150ML	15	± 20	28	2.52	28	0.24	0.92	1.40
SDR0403-180ML	18	± 20	25	2.52	23	0.34	0.84	1.30
SDR0403-220ML	22	± 20	25	2.52	20	0.38	0.76	1.20
SDR0403-270KL	27	± 10	23	2.52	17	0.52	0.71	1.00
SDR0403-330KL	33	± 10	23	2.52	15	0.54	0.64	0.99
SDR0403-390KL	39	± 10	20	2.52	14	0.59	0.59	0.92
SDR0403-470KL	47	± 10	20	2.52	13	0.84	0.54	0.78
SDR0403-560KL	56	± 10	20	2.52	12	0.94	0.50	0.74
SDR0403-680KL	68	± 10	20	2.52	11	1.12	0.46	0.68
SDR0403-820KL	82	± 10	25	2.52	10	1.27	0.42	0.58
SDR0403-101KL	100	± 10	35	0.796	9	1.90	0.35	0.51
SDR0403-121KL	120	± 10	50	0.796	8	2.20	0.32	0.44
SDR0403-151KL	150	± 10	50	0.796	8	3.40	0.26	0.40
SDR0403-181KL	180	± 10	50	0.796	5	3.90	0.24	0.39
SDR0403-221KL	220	± 10	50	0.796	4	4.40	0.22	0.33
SDR0403-271KL	270	± 10	45	0.796	3	5.00	0.20	0.30
SDR0403-331KL	330	± 10	40	0.796	4	6.00	0.17	0.25
SDR0403-391KL	390	± 10	40	0.796	3.5	6.40	0.15	0.22
SDR0403-471KL	470	± 10	50	0.796	3	7.00	0.13	0.19
SDR0403-561KL	560	± 10	50	0.796	2.8	7.80	0.12	0.18
SDR0403-681KL	680	± 10	40	0.796	2.8	8.60	0.11	0.16
SDR0403-821KL	820	± 10	38	0.796	2.5	12.00	0.10	0.15
SDR0403-102KL	1000	± 10	38	0.252	2	14.00	0.09	0.13

Typical Part Marking



Electrical Schematic



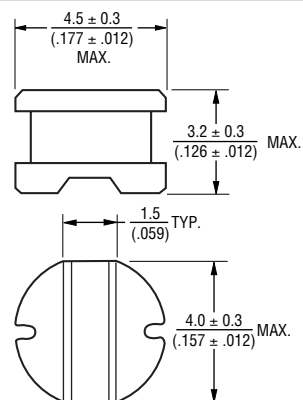
General Specifications

Test Voltage..... 1 V
 Operating Temperature ...-40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature... -55 °C to +125 °C
 Moisture Sensitivity Level..... 1
 ESD Classification (HBM)..... N/A

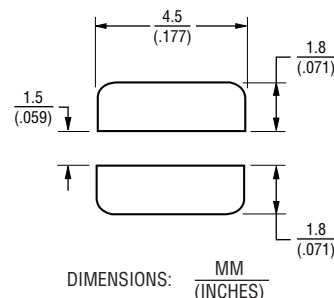
Materials

Core..... Ferrite DR
 Wire..... Enameled copper
 Terminal..... Ag/Ni/Sn
 Rated Current..Ind. drop 10 % typ. at Isat
 Temp. Rise..... 40 °C max. at rated Irms
 Packaging..... 2000 pcs. per reel

Product Dimensions



Recommended Layout



*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

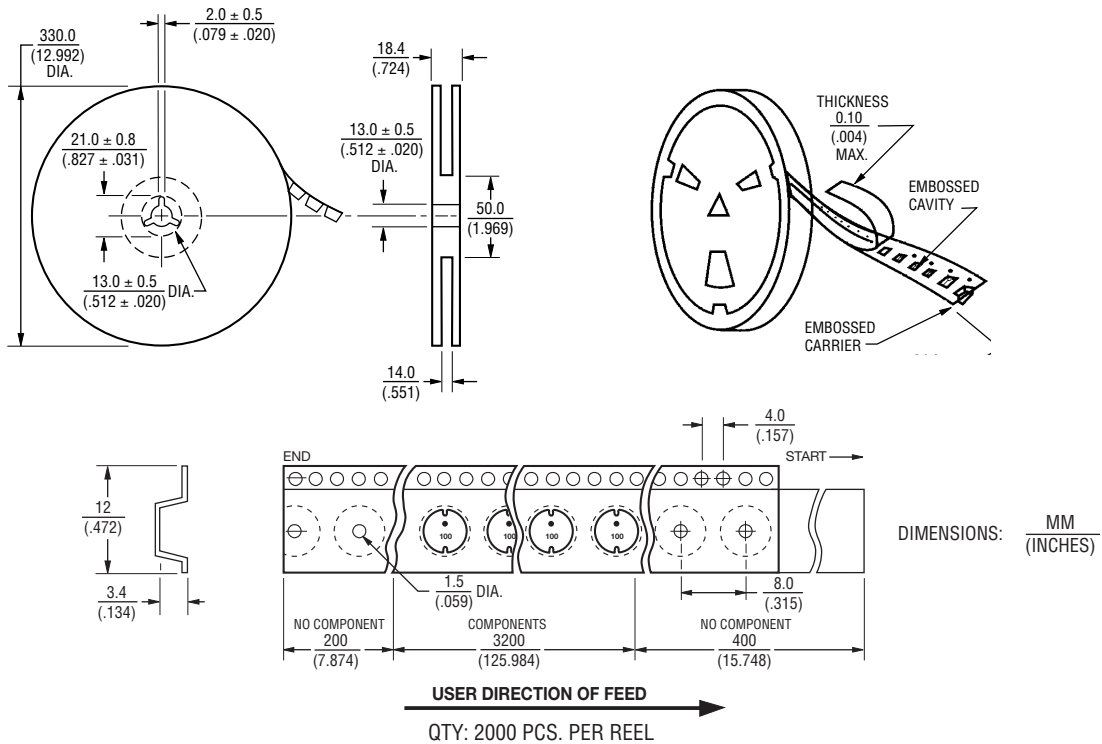
Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

SDR0403 Series - SMD Power Inductors

BOURNS®

Packaging Specifications



REV. 02/18

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.