



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features

- Available in E12 series
- Unit height of 2.2 mm
- Current up to 1.5 A
- High Q level
- RoHS compliant*



The SDR0602 Series is obsolete and not recommended for new designs.

SDR0602 Series - SMD High Power Inductor

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. %						
SDR0602-2R7ML	2.7	± 20	20	7.96	40	0.12	1.50	2.10
SDR0602-3R9ML	3.9	± 20	20	7.96	40	0.13	1.40	1.90
SDR0602-4R7ML	4.7	± 20	20	7.96	35	0.15	1.30	1.80
SDR0602-5R6ML	5.6	± 20	18	7.96	30	0.17	1.20	1.60
SDR0602-6R8ML	6.8	± 20	18	7.96	28	0.18	1.15	1.55
SDR0602-8R2ML	8.2	± 20	15	7.96	27	0.20	1.10	1.43
SDR0602-100ML	10	± 20	50	2.52	25	0.24	1.00	1.32
SDR0602-120ML	12	± 20	45	2.52	21	0.26	0.90	1.17
SDR0602-150ML	15	± 20	45	2.52	20	0.28	0.80	1.10
SDR0602-180ML	18	± 20	45	2.52	18	0.30	0.75	1.07
SDR0602-220ML	22	± 20	45	2.52	16	0.40	0.70	0.90
SDR0602-270ML	27	± 20	40	2.52	15	0.45	0.65	0.83
SDR0602-330KL	33	± 10	35	2.52	12	0.50	0.60	0.73
SDR0602-390KL	39	± 10	32	2.52	12	0.65	0.55	0.68
SDR0602-470KL	47	± 10	30	2.52	11	0.68	0.50	0.62
SDR0602-560KL	56	± 10	30	2.52	10	0.78	0.45	0.57
SDR0602-680KL	68	± 10	27	2.52	9	0.85	0.40	0.52
SDR0602-820KL	82	± 10	27	2.52	8	1.30	0.35	0.46
SDR0602-101KL	100	±10	50	0.796	7	1.52	0.32	0.42
SDR0602-121KL	120	± 10	50	0.796	6	1.65	0.30	0.38
SDR0602-151KL	150	± 10	60	0.796	6	2.00	0.26	0.24
SDR0602-181KL	180	± 10	55	0.796	5	2.30	0.23	0.32
SDR0602-221KL	220	± 10	55	0.796	5	2.50	0.20	0.29
SDR0602-271KL	270	± 10	55	0.796	4	2.85	0.18	0.26
SDR0602-331KL	330	± 10	55	0.796	4	3.80	0.16	0.22
SDR0602-391KL	390	± 10	55	0.796	3	4.20	0.15	0.20
SDR0602-471KL	470	± 10	55	0.796	3	5.00	0.14	0.18
SDR0602-561KL	560	± 10	55	0.796	3	6.20	0.12	0.14

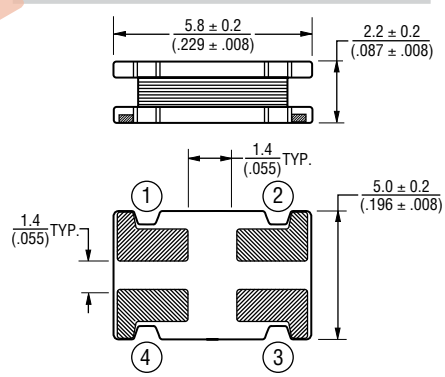
General Specifications

Test Voltage.....1 Volt
 Reflow Soldering.....260 °C, 50 sec max.
 Operating Temperature...-40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature...-40 °C to +125 °C
 Packaging.....800 pcs. per reel
 Resistance to Soldering Heat
260 °C for 5 sec.

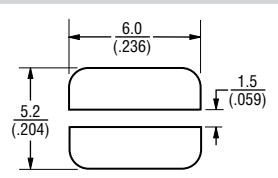
Materials

Core MaterialFerrite DQ
 WireEnameled Copper
 Terminal.....Ag/Ni/Sn
 Rated Current...Ind. drop 10 % typ. at Isat
 Temperature Rise...40 °C max at rated Irms

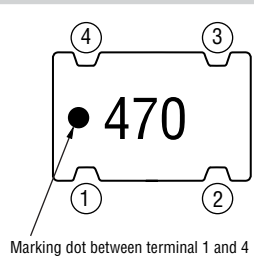
Product Dimensions



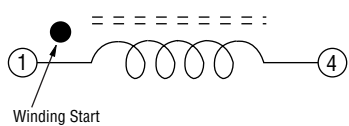
Recommended Layout



Typical Part Marking



Electrical Schematic



*RoHS Directive 2002/95/EC Jan 27, 2003 including Annex. Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.

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

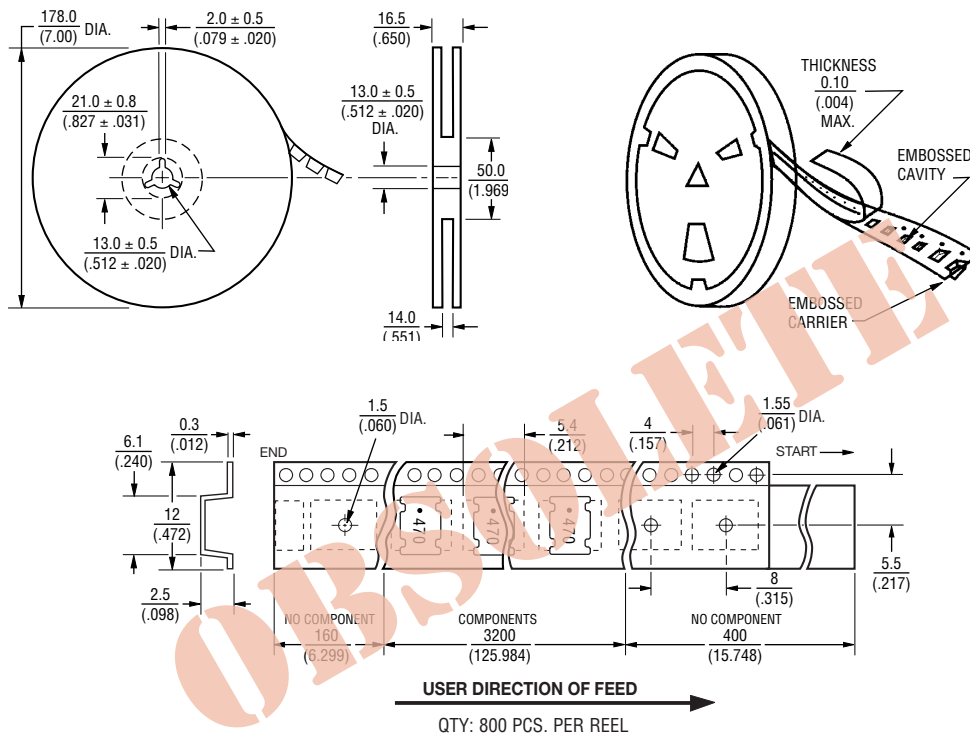
Applications

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

SDR0602 Series - SMD Power Inductors

BOURNS®

Packaging Specifications



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