

UNSHIELDED SMD POWER INDUCTORS



SDR 0402/0802/0804/0810/1206 TYPE

High power, High saturation, Low resistance.

Ideal inductors for DC-DC conversion in notebook computer,

PDA's, Step-up or step-down converters, flash memory programmers, etc.

SDR0402 used ceramic base with gold-plating.

The other used LCP plastic base.



Applications:

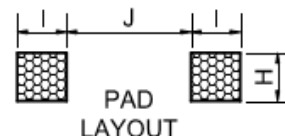
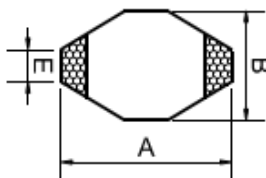
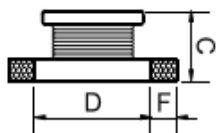
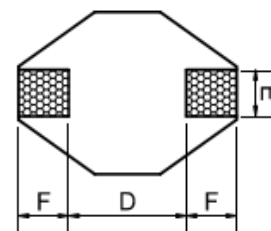
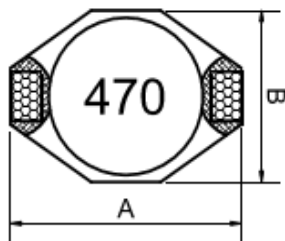
Portable telephones, Personal computer, DC-DC converters, etc.

Other various electronic appliances

Electrical Specifications at 25 °C

Shape and Dimensions (Unit : mm)

P/N	A (max)	B (max)	C (max)	D	E	F	H	I	J
SDR0402	6.60	4.45	2.92	4.32	1.27	1.02	3.56	1.4	4.06
SDR0802	12.95	9.40	3.50	7.62	2.54	2.54	2.79	2.92	7.37
SDR0804	12.95	9.40	5.21	7.62	2.54	2.54	2.79	2.92	7.37
SDR0810	12.95	9.40	11.43	7.62	2.54	2.54	2.79	2.92	7.37
SDR1206	18.54	15.24	7.11	12.7	2.54	2.54	2.79	2.92	12.45



Inductance Tolerance : M $\pm 20\%$, L $\pm 15\%$, K $\pm 10\%$

Part Nuber	Inductance (uH)	SRF Ref. (MHz)	DCR Max(Ω)	Rated Current Max (A)	
				Isat	Irms
SDR0402-1R0M	1.0	130	0.05	2.90	2.90
SDR0402-1R5M	1.5	115	0.05	2.60	2.80
SDR0402-2R2M	2.2	90	0.07	2.30	2.40
SDR0402-3R3M	3.3	70	0.08	2.00	2.00
SDR0402-4R7M	4.7	50	0.09	1.50	1.50
SDR0402-6R8M	6.8	45	0.13	1.20	1.40
SDR0402-100M	10.0	35	0.16	1.10	1.10
SDR0402-150M	15.0	30	0.23	0.90	1.20
SDR0402-220K	22.0	20	0.37	0.70	0.80

SUOTEK ELECTRONICS COMPANY LIMITED

Tel: 86-769-86318023 Fax : 86-769-86318022 Website: www.suotek.com E-mail: sales@suotek.com

SDR003-1

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				Isat	Irms
SDR0402-330K	33.0	15	0.51	0.58	0.60
SDR0402-470K	47.0	14	64.00	0.50	0.50
SDR0402-680K	68.0	11	86.00	0.40	0.40
SDR0402-101K	100.0	9	1.27	0.31	0.30
SDR0402-151K	150.0	6	2.00	0.27	0.25
SDR0402-221K	220.0	5.5	3.11	0.22	0.20
SDR0402-331K	330.0	5	3.80	0.18	0.16
SDR0402-471K	470.0	4	6.20	0.16	0.15
SDR0402-681K	680.0	3	9.20	0.14	0.12
SDR0402-102K	1000.0	2	13.80	0.10	0.07
SDR0802-100M	10.0	35	0.11	2.40	2.00
SDR0802-150M	15.0	33	0.15	2.00	1.50
SDR0802-220M	22.0	25	0.23	1.60	1.30
SDR0802-330M	33.0	19	0.30	1.40	1.10
SDR0802-470M	47.0	14	0.39	1.00	0.80
SDR0802-680M	68.0	12	0.66	0.90	0.70
SDR0802-101M	100.0	10	0.84	0.70	0.60
SDR0802-151M	150.0	8	1.20	0.60	0.50
SDR0802-221M	220.0	6	1.90	0.50	0.40
SDR0802-331M	330.0	5	2.70	0.40	0.30
SDR0802-471M	470.0	4	4.00	0.30	0.20
SDR0802-681M	680.0	3	5.30	0.20	0.10
SDR0802-102M	1000.0	2.5	8.40	0.10	0.05

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				Isat	Irms
SDR0804-1R0M	1.0	100	0.009	9.00	6.80
SDR0804-1R5M	1.5	90	0.010	8.00	6.40
SDR0804-2R2M	2.2	80	0.012	7.00	6.10
SDR0804-3R3M	3.3	65	0.015	6.40	5.40
SDR0804-4R7M	4.7	45	0.018	5.40	4.80
SDR0804-6R8M	6.8	38	0.027	4.60	4.40
SDR0804-100M	10.0	30	0.038	3.80	3.90
SDR0804-150M	15.0	27	0.046	3.00	3.10
SDR0804-220M	22.0	19	0.085	2.60	2.70
SDR0804-330M	33.0	15	0.100	2.00	2.10
SDR0804-470M	47.0	12	0.140	1.60	1.80
SDR0804-680M	68.0	10	0.200	1.40	1.50
SDR0804-101M	100.0	9	0.280	1.20	1.30
SDR0804-151M	150.0	6	0.400	1.00	1.00
SDR0804-221M	220.0	5	0.610	0.80	0.80
SDR0804-331M	330.0	4.5	1.020	0.60	0.60
SDR0804-471M	470.0	3.5	1.270	0.50	0.50
SDR0804-681M	680.0	2.5	2.020	0.40	0.40
SDR0804-102M	1000.0	2	3.000	0.30	0.30
SDR0810-100M	10.0	22	0.040	8.00	3.50
SDR0810-150M	15.0	18	0.050	7.00	3.00
SDR0810-220M	22.0	11	0.066	5.50	2.50
SDR0810-330M	33.0	9	0.080	4.00	2.00
SDR0810-470M	47.0	8	0.110	3.80	1.60

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Part Nuber	Inductance (μ H)	SRF Ref. (MHz)	DCR Max(Ω)	Rated Current Max (A)	
				Isat	Irms
SDR0810-680M	68.0	7	0.170	3.00	1.20
SDR0810-101M	100.0	5	0.220	2.50	1.20
SDR0810-151M	150.0	4	0.340	2.00	0.90
SDR0810-221M	220.0	3.5	0.440	1.60	0.70
SDR0810-331M	330.0	2.5	0.700	1.20	0.60
SDR0810-471M	470.0	2	0.950	1.00	0.30
SDR0810-681M	680.0	2	1.200	1.00	0.20
SDR0810-102M	1000.0	1.5	2.000	0.80	0.10
SDR1206-1R0M	1.0	80	0.009	20.00	8.60
SDR1206-2R2M	2.2	80	0.014	16.00	7.10
SDR1206-3R3M	3.3	60	0.018	14.00	6.20
SDR1206-5R6M	5.6	40	0.020	12.00	5.30
SDR1206-100M	10.0	30	0.031	10.00	4.30
SDR1206-150M	15.0	22	0.036	8.00	4.00
SDR1206-220M	22.0	20	0.047	7.00	3.50
SDR1206-330M	33.0	15	0.066	5.50	3.00
SDR1206-470M	47.0	9	0.086	4.50	2.60
SDR1206-680M	68.0	8	0.130	3.50	2.30
SDR1206-101M	100.0	7	0.190	3.00	1.80
SDR1206-151M	150.0	6	0.250	2.60	1.50
SDR1206-221M	220.0	5	0.380	2.40	1.20
SDR1206-331M	330.0	4	0.560	1.90	1.00
SDR1206-471M	470.0	3	0.850	1.40	0.82
SDR1206-681M	680.0	2.5	1.100	1.20	0.72
SDR1206-102M	1000.0	2	1.800	1.00	0.56

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