

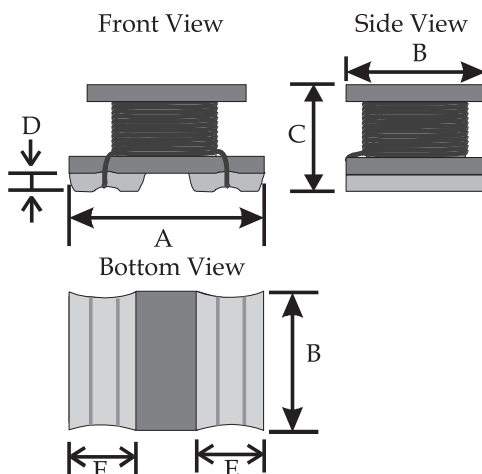
HIGH CURRENT RF CHIP INDUCTORS SERIES SH

FEATURES

- Suitable for enhancing the performance of electronic circuits in video, communications, and audio equipment.
- Excellent for use as power supply unit in RF area. Excellent solderability and high heat resistance
- High current, low DC resistance

SPECIFICATIONS

- Inductance range	SH0805 series 1.0uH to 22uH SH1008 series 1.0uH to 33uH SH1206 series 0.12uH to 100uH SH1210 series 1.0uH to 560uH SH1812 series 1.0uH to 470uH
- Tolerance	± 10% or 20% depending on value and size. Please refer to detailed spec.
- Rated current	Based on value obtained when coil has 15°C temperature rise or Lo drops more than 20%
- Test procedure	L measured with HP-4192A SRF measured with HP8753A Network Analyzer
- Operating temperature	-25°C to +105°C
- Construction	Wire wound
- Soldering heat resistance	230°C for 10 seconds
- Terminal construction	Silver plating
- Resistance to solvents	Meets MIL-STD-202E
- Packaging	Tape and reel
- Tape & reel specifications	178 mm plastic reel with 8 mm embossed carrier tape
- Quantity per reel	0805 size 2000 1008 size 2000 1206 size 2000 1210 size 2000 1812 size 500



DIMENSIONS IN MILLIMETERS

DIMENSIONS	SH0805	SH1008	SH1206	SH1210	SH1812
A	2.0 ± 0.2	2.5 ± 0.2	3.2 ± 0.3	3.2 ± 0.3	4.5 ± 0.3
B	1.5 ± 0.2	2.0 ± 0.2	1.6 ± 0.3	2.5 ± 0.3	3.2 ± 0.3
C	1.7 ± 0.2	1.8 ± 0.2	1.8 ± 0.3	2.2 ± 0.3	2.6 ± 0.3
D	0.15 min	0.15 min	0.15 min	0.15 min	0.15 typ
E	0.6 ± 0.2	0.8 ± 0.2	1.15 ± 0.2	1.15 ± 0.2	1.2 ± 0.2

ELECTRICAL SPECIFICATIONS

SH0805 SERIES

PART NUMBER	L (μ H)	TEST FREQ (MHz)	DCR max (Ω)	SRF min (MHz)	RATED CURRENT (mA)
SH0805-1R0K	1.0	7.96	0.208	100	700
SH0805-2R2K	2.2	7.96	0.299	80	620
SH0805-4R7K	4.7	7.96	0.520	45	430
SH0805-100K	10	2.52	0.910	32	300
SH0805-220K	22	2.52	2.210	16	220

SH1008 SERIES

PART NUMBER	L (μ H)	TEST FREQ (MHz)	DCR max (Ω)	SRF min (MHz)	RATED CURRENT (mA)
SH1008-1R0M	1.0	7.96	0.442	200	475
SH1008-1R5M	1.5	7.96	0.546	165	435
SH1008-2R2M	2.2	7.96	0.650	95	390
SH1008-3R3M	3.3	7.96	0.845	55	340
SH1008-4R7M	4.7	7.96	1.040	43	285
SH1008-6R8M	6.8	7.96	1.300	39	275
SH1008-100M	10	2.52	2.197	32	210
SH1008-150M	15	2.52	2.860	21	175
SH1008-220M	22	2.52	3.640	18	160
SH1008-330M	33	2.52	5.460	16	120

SH1206 SERIES

PART NUMBER	L (μ H)	TEST FREQ (MHz)	DCR max (Ω)	SRF min (MHz)	RATED CURRENT (mA)
SH1206-R12M	0.12	1	0.112	250	970
SH1206-R22M	0.22	1	0.140	250	850
SH1206-R47M	0.47	1	0.210	180	700
SH1206-1R0M	1.00	1	0.364	100	510
SH1206-2R2M	2.20	1	0.533	50	430
SH1206-4R7M	4.70	1	0.845	31	340
SH1206-100K	10	1	1.690	20	230
SH1206-220K	22	1	3.900	14	160
SH1206-470K	47	1	10.40	10	100
SH1206-101K	100	1	15.60	7	80

SH1210 SERIES

PART NUMBER	L (μ H)	TEST FREQ (MHz)	DCR max (Ω)	SRF min (MHz)	RATED CURRENT (mA)
SH1210-1R0M	1.0	1.000	0.117	96	800
SH1210-2R2M	2.2	1.000	0.169	64	600
SH1210-4R7M	4.7	1.000	0.260	43	450
SH1210-100K	10	1.000	0.572	26	300
SH1210-220K	22	1.000	0.923	19	250
SH1210-470K	47	1.000	1.690	15	170
SH1210-101K	100	1.000	4.550	10	100
SH1210-221K	220	1.000	10.92	6.8	70
SH1210-331K	330	1.000	13.00	5.6	60
SH1210-391K	390	1.000	22.10	5.0	60
SH1210-471K	470	0.001	24.70	5.0	60
SH1210-561K	560	0.001	28.60	5.0	60

SH1812 SERIES

PART NUMBER	L (μ H)	TEST FREQ (MHz)	DCR max (Ω)	SRF min (MHz)	RATED CURRENT (mA)
SH1812-1R0M	1.0	1.000	0.08	100	1080
SH1812-1R5M	1.5	1.000	0.09	85	1000
SH1812-2R2M	2.2	1.000	0.11	60	900
SH1812-3R3M	3.3	1.000	0.13	47	800
SH1812-4R7M	4.7	1.000	0.15	35	750
SH1812-6R8M	6.8	1.000	0.20	30	720
SH1812-100K	10	1.000	0.24	23	650
SH1812-150K	15	1.000	0.32	20	570
SH1812-220K	22	1.000	0.60	15	420
SH1812-330K	33	1.000	1.00	12	310
SH1812-470K	47	1.000	1.10	10	280
SH1812-680K	68	1.000	1.70	8.4	220
SH1812-101K	100	1.000	2.20	6.8	190
SH1812-151K	150	1.000	3.50	5.5	130
SH1812-221K	220	1.000	4.00	4.5	110
SH1812-331K	330	1.000	6.80	3.6	100
SH1812-471K	470	0.001	8.50	3.0	90

NOTE M = tolerance \pm 20%
K = tolerance \pm 10%