

T Y P E W I C C

FEATURES

- Excellent solderability by reflow soldering, flow soldering or soldering iron.
- Excellent for automatic insertion in the higher density circuit design.
- Resistant to external shocks and pressure.
- Highly reliable in wide temperature and humidity ranges. Excellent Q characteristics.
- Inductance of 1.00 to 33 μH (WICC1008), 1.00 to 680 μH (WICC1210) and 1 to 330 μH (WICC1812).
- Ideal application for power supply line, radio, auto, telecommunications, tuners, instrumental and hybrid ICs.

DIMENSIONS

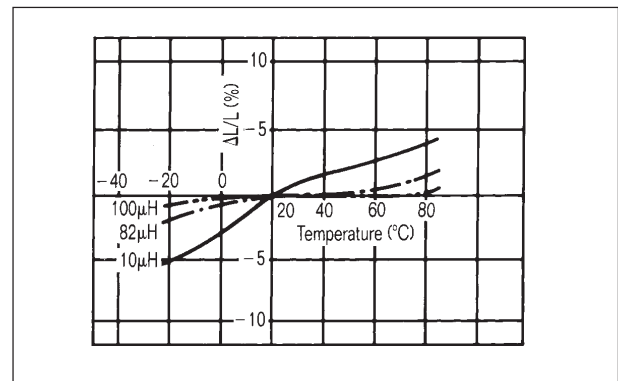
Unit : mm
(Dimensions in inches)

	Type	L	W	T	D	E	F
	WICC1008	2.5±0.2 (.100±.008)	2.0±0.2 (.080±.008)	1.8±0.2 (.072±.008)	1.4±0.1 (.056±.004)	0.5±0.005 (.02±.002)	0.4±0.005 (.016±.002)
	WICC1210	3.2±0.2 (.126±.008)	2.5±0.2 (.098±.008)	2.2±0.2 (.087±.008)	1.9±0.1 (.075±.004)	0.5±0.005 (.02±.002)	0.4±0.005 (.016±.002)
	WICC1812	4.5±0.3 (.177±.008)	3.2±0.2 (.126±.008)	3.2±0.2 (.126±.008)	2.6±0.1 (.102±.004)	0.5±0.005 (.02±.002)	0.4±0.005 (.016±.002)

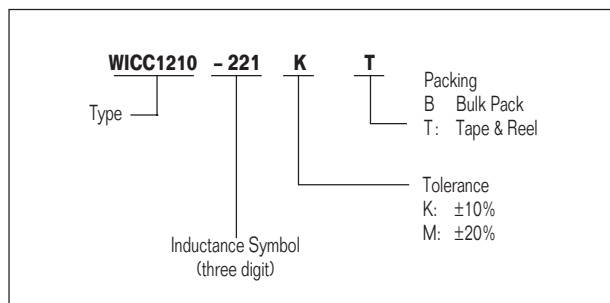
CHARACTERISTICS

Temperature rise	20°C max.
Ambient temperature	80°C
Storage temperature	-40°C to + 100°C
Operating temperature	-20°C to + 100°C
Terminal tensile strength	1 kg min. (0.5kg for the WICC1210 & WICC1008)
Current rating	Value obtained when current flows and when temperature has risen to 20°C or value obtained when LC current flows and when the initial value of inductance has fallen by 10%, whichever smaller.
Resistance to soldering heat	260°C 10 seconds
Resistance to solvent	Conforms to MIL-STD-202E

TEMPERATURE CHARACTERISTICS



ORDERING INFORMATION



TAPE PACKAGING

Size	Qty/Reel
WICC1008	2,000
WICC1210	2,000
WICC1812	500

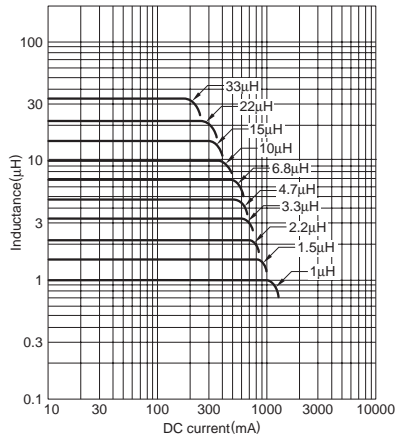
WOUND HI-CURRENT INDUCTOR CHIPS — TYPE WICC

WICC1008 ELECTRICAL SPECIFICATIONS

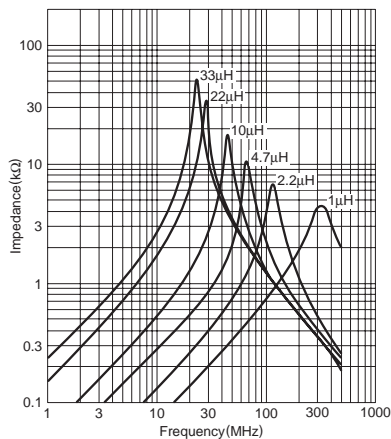
SMEC Part No.	Inductance (μ H)	Inductance Symbol	Q min.	L, Q test frequency (MHz)	Self resonant frequency (MHz) min.	DC resistance (Ω) max.	I _{dc} (mA) max.
WICC1008-1R0MT	1.0	1R0	20	7.96	200	0.34	475
WICC1008-1R5MT	1.5	1R5	20	7.96	165	0.42	435
WICC1008-2R2MT	2.2	2R2	20	7.96	95	0.50	390
WICC1008-3R3MT	3.3	3R3	20	7.96	55	0.65	340
WICC1008-4R7MT	4.7	4R7	20	7.96	43	0.80	285
WICC1008-6R8MT	6.8	6R8	20	7.96	39	1.00	275
WICC1008-100KT	10	100	30	2.52	32	1.69	210
WICC1008-150KT	15	150	30	2.52	21	2.20	175
WICC1008-220KT	22	220	30	2.52	18	2.80	160
WICC1008-330KT	33	330	30	2.52	16	4.20	120

Inductance and Q are measured with a Q-meter.

ELECTRICAL CHARACTERISTICS Inductance Change vs. DC Superposition Characteristics



Impedance vs. Frequency Characteristics

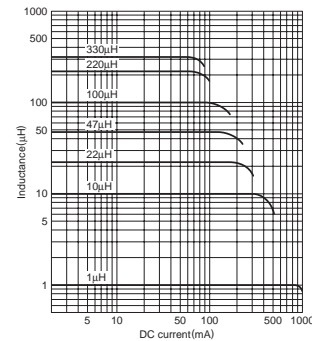


WICC1210 ELECTRICAL SPECIFICATIONS

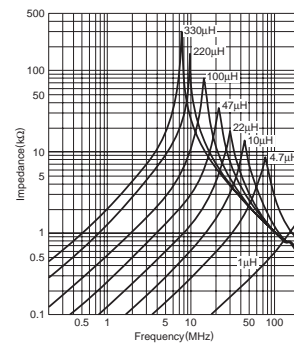
SMEC Part No.	Inductance (μ H)	Inductance Symbol	Q min.	L, Q test frequency (MHz)	Self resonant frequency (MHz) min.	DC resistance (Ω) max.	I _{dc} (mA) max.
WICC1210-1R0MT	1.0	1R0	10	7.96	100	0.08	850
WICC1210-1R5MT	1.5	1R5	10	7.96	80	0.11	700
WICC1210-2R2MT	2.2	2R2	10	7.96	68	0.13	600
WICC1210-3R3MT	3.3	3R3	10	7.96	54	0.16	500
WICC1210-4R7MT	4.7	4R7	15	7.96	46	0.20	430
WICC1210-6R8MT	6.8	6R8	15	7.96	38	0.27	360
WICC1210-100KT	10	100	15	2.52	30	0.36	300
WICC1210-150KT	15	150	15	2.52	26	0.56	250
WICC1210-220KT	22	220	15	2.52	21	0.77	210
WICC1210-330KT	33	330	15	2.52	17	1.10	170
WICC1210-470KT	47	470	15	2.52	14	1.64	150
WICC1210-680KT	68	680	15	2.52	12	2.80	120
WICC1210-101KT	100	101	15	0.796	10	3.70	100
WICC1210-151KT	150	151	20	0.796	8	6.10	85
WICC1210-221KT	220	221	20	0.796	7	8.40	70
WICC1210-331KT	330	331	20	0.796	6	12.30	60
WICC1210-471KT	470	471	20	0.796	4	22.00	45
WICC1210-681KT	680	681	20	0.796	3	28.00	35

Inductance and Q are measured with a Q-meter.

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Impedance vs. Frequency Characteristics



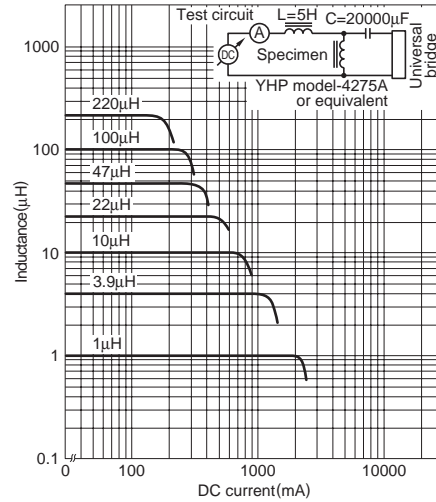
WOUND HI-CURRENT INDUCTOR CHIPS — TYPE WICC

WICC1812 ELECTRICAL SPECIFICATIONS

SMEC Part No.	Inductance (μH)	Inductance Symbol	Q min.	L, Q test frequency (MHz)	Self resonant frequency (MHz) min.	DC resistance (Ω) max.	I _{dc} (mA) max.
WICC1812-1R0KT	1.0	1R0	10	7.96	200	0.11	1050
WICC1812-1R2KT	1.2	1R2	10	7.96	160	0.12	1000
WICC1812-1R5KT	1.5	1R5	10	7.96	130	0.15	950
WICC1812-1R8KT	1.8	1R8	10	7.96	100	0.16	900
WICC1812-2R2KT	2.2	2R2	10	7.96	80	0.18	850
WICC1812-2R7KT	2.7	2R7	10	7.96	60	0.20	800
WICC1812-3R3KT	3.3	3R3	10	7.96	45	0.22	750
WICC1812-3R9KT	3.9	3R9	10	7.96	40	0.24	700
WICC1812-4R7KT	4.7	4R7	10	7.96	35	0.27	650
WICC1812-5R6KT	5.6	5R6	10	7.96	30	0.30	650
WICC1812-6R8KT	6.8	6R8	10	7.96	28	0.35	600
WICC1812-8R2KT	8.2	8R2	10	7.96	25	0.40	600
WICC1812-100KT	10.0	100	10	2.52	22	0.50	550
WICC1812-120KT	12.0	120	10	2.52	21	0.60	500
WICC1812-150KT	15.0	150	10	2.52	20	0.70	450
WICC1812-180KT	18.0	180	10	2.52	19	0.80	400
WICC1812-220KT	22.0	220	10	2.52	18	0.90	370
WICC1812-270KT	27.0	270	10	2.52	16	1.20	330
WICC1812-330KT	33.0	330	10	2.52	14	1.40	300
WICC1812-390KT	39.0	390	10	2.52	12	1.60	280
WICC1812-470KT	47.0	470	10	2.52	11.5	1.90	260
WICC1812-560KT	56.0	560	10	2.52	11	2.20	240
WICC1812-680KT	68.0	680	10	2.52	10	2.60	220
WICC1812-820KT	82.0	820	10	2.52	9.0	3.50	200
WICC1812-101KT	100	101	20	0.796	8.0	4.00	180
WICC1812-121KT	120	121	20	0.796	7.5	4.50	160
WICC1812-151KT	150	151	20	0.796	7.0	6.50	140
WICC1812-181KT	180	181	20	0.796	6.5	7.50	120
WICC1812-221KT	220	221	20	0.796	5.5	9.00	120
WICC1812-271KT	270	271	20	0.796	5.0	11.00	100
WICC1812-331KT	330	331	20	0.796	4.0	13.00	90

Inductance and Q are measured with a Q-meter.

ELECTRICAL CHARACTERISTICS Inductance Change vs. DC Superposition Characteristics



Impedance vs. Frequency Characteristics

