

SPECIFICATION OF HLC SERIES

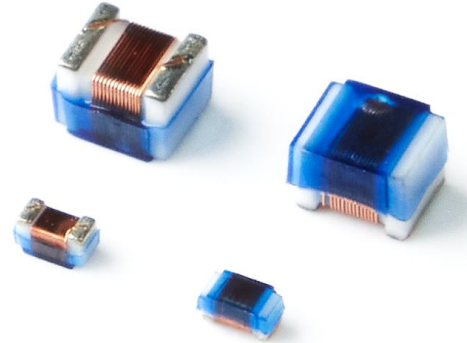
HLC0402/0603/0805CSCC SERIES

1. Ceramic body and Wire wound construction provide highest SRFs available in 0402/0603/0805 size.
2. These ultra compact inductors provided exceptional Q values , even at high frequencies.



HLC1008CSCC SERIES

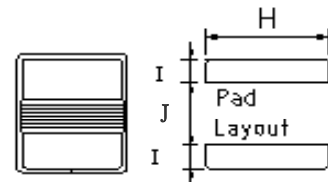
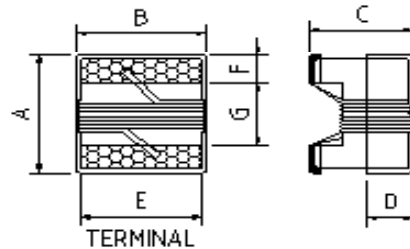
1. THE "HLC" series chip inductors have been designed especially for the needs of today's high frequency designer.
2. Their ceramic construction delivers the highest possible SRFs as well as excellent Q values.
3. The non-magnetic coil form also assures the utmost in thermal stability , predictability and batch consistency.



ORDERING CODE

HLC1008CSCC 22N J T
 (1) (2) (3)(4)

- (1) PRODUCT TYPE CODE AND SIZE CODE
- (2) INDUCTANCE
- (3) INDUCTANCE TOLERANCE
 (G : ±2%, J : ±5%, K : ±10%)
- (4) REEL TAPING



SHAPE & DIMENSIONS

UNIT:mm (inch)

SIZE CODE	A Max.	B Max.	C Max.	D Ref.	E	F	G	H	I	J
HLC0402CSCC (0402)	1.19 (0.047)	0.70 (0.028)	0.66 (0.026)	0.25 (0.010)	0.51 (0.020)	0.23 (0.009)	0.56 (0.022)	0.66 (0.026)	0.36 (0.014)	0.46 (0.018)
HLC0603CSCC (0603)	1.80 (0.071)	1.12 (0.044)	1.02 (0.040)	0.38 (0.015)	0.76 (0.030)	0.33 (0.013)	0.86 (0.034)	1.02 (0.040)	0.64 (0.025)	0.64 (0.025)
HLC0805CSCC (0805)	2.29 (0.090)	1.73 (0.068)	1.52 (0.060)	0.51 (0.020)	1.27 (0.050)	0.51 (0.020)	1.02 (0.040)	1.78 (0.070)	1.02 (0.040)	0.76 (0.030)
HLC1008CSCC (1008)	2.92 (0.115)	2.79 (0.110)	2.23 (0.088)	0.51 (0.020)	2.03 (0.080)	0.51 (0.020)	1.52 (0.060)	2.54 (0.100)	1.02 (0.040)	1.27 (0.050)

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WOUND CHIP INDUCTORS → HLC1008CSCC SERIES

ELECTRICAL CHARACTERISTICS

ORDERING CODE	L	Tolerance	Test	Q	Test	Self Resonant	DC	IDC
	(nH)	±%	Frequency (MHz)	Min	Frequency (MHz)	Frequency (MHz)TYP	Resistance (Ω)max	(mA)max
HLC1008CSCC10N□T	10	10/5/2	50	50	500	4100	0.08	1000
HLC1008CSCC12N□T	12	10/5/2	50	50	500	3300	0.09	1000
HLC1008CSCC15N□T	15	10/5/2	50	50	500	2500	0.10	1000
HLC1008CSCC18N□T	18	10/5/2	50	50	350	2500	0.11	1000
HLC1008CSCC22N□T	22	10/5/2	50	55	350	2400	0.12	1000
HLC1008CSCC27N□T	27	10/5/2	50	55	350	1600	0.13	1000
HLC1008CSCC33N□T	33	10/5/2	50	60	350	1600	0.14	1000
HLC1008CSCC39N□T	39	10/5/2	50	60	350	1500	0.15	1000
HLC1008CSCC47N□T	47	10/5/2	50	65	350	1500	0.16	1000
HLC1008CSCC56N□T	56	10/5/2	50	65	350	1300	0.18	1000
HLC1008CSCC68N□T	68	10/5/2	50	65	350	1300	0.20	1000
HLC1008CSCC82N□T	82	10/5/2	50	60	350	1000	0.22	1000
HLC1008CSCCR10□T	100	10/5/2	25	60	350	1000	0.56	650
HLC1008CSCCR12□T	120	10/5/2	25	60	350	950	0.63	650
HLC1008CSCCR15□T	150	10/5/2	25	45	100	850	0.70	580
HLC1008CSCCR18□T	180	10/5/2	25	45	100	750	0.77	620
HLC1008CSCCR22□T	220	10/5/2	25	45	100	700	0.84	500
HLC1008CSCCR27□T	270	10/5/2	25	45	100	600	0.91	500
HLC1008CSCCR33□T	330	10/5/2	25	45	100	570	1.05	450
HLC1008CSCCR39□T	390	10/5/2	25	45	100	500	1.12	470
HLC1008CSCCR47□T	470	10/5/2	25	45	100	450	1.19	470
HLC1008CSCCR56□T	560	10/5/2	25	45	100	415	1.33	400
HLC1008CSCCR62□T	620	10/5/2	25	45	100	375	1.40	300
HLC1008CSCCR68□T	680	10/5/2	25	45	100	375	1.47	400
HLC1008CSCCR75□T	750	10/5/2	25	45	100	360	1.54	360
HLC1008CSCCR82□T	820	10/5/2	25	45	100	350	1.61	400
HLC1008CSCCR91□T	910	10/5/2	25	35	50	320	1.68	380
HLC1008CSCC1R0□T	1000	10/5/2	25	35	50	290	1.75	370
HLC1008CSCC1R2□T	1200	10/5/2	7.9	35	50	250	2.00	310
HLC1008CSCC1R5□T	1500	10/5/2	7.9	28	50	200	2.30	330
HLC1008CSCC1R8□T	1800	10/5/2	7.9	28	50	160	2.60	300
HLC1008CSCC2R2□T	2200	10/5/2	7.9	28	50	160	2.80	280
HLC1008CSCC2R7□T	2700	10/5/2	7.9	22	25	140	3.20	290
HLC1008CSCC3R3□T	3300	10/5/2	7.9	22	25	110	3.40	290
HLC1008CSCC3R9□T	3900	10/5/2	7.9	20	25	100	3.60	260
HLC1008CSCC4R7□T	4700	10/5/2	7.9	20	25	90	4.00	260
HLC1008CSCC5R6□T	5600	10/5/2	7.9	16	7.9	20	4.00	240
HLC1008CSCC6R8□T	6800	10/5/2	7.9	18	7.9	40	4.90	200
HLC1008CSCC8R2□T	8200	10/5/2	7.9	18	7.9	25	6.00	170

※Operating temperature range : -25 to +85°C (including self-heating)

※Means the inductance tolerance, Tolerance : G = 2% , J = 5% , K = 10%

※IDC:Based on Temperature increase 40°C

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