

SPECIFICATION OF HLC SERIES

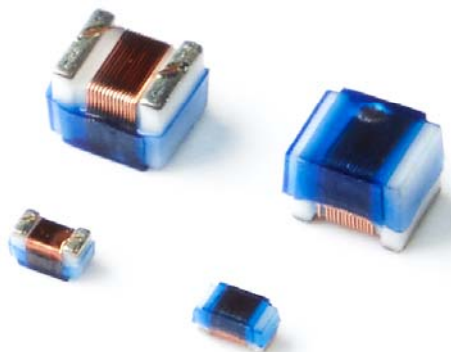
HLC0402/0603/0805CSCC SERIES

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

HLC0603CSCC 22N J T
(1) (2) (3)(4)

(1) PRODUCT TYPE CODE AND SIZE CODE

(2) INDUCTANCE

(3) INDUCTANCE TOLERANCE

(G : $\pm 2\%$, J : $\pm 5\%$, K : $\pm 10\%$)

(4) REEL TAPING

(G : $\pm 2\%$, J : $\pm 5\%$, K : $\pm 10\%$)

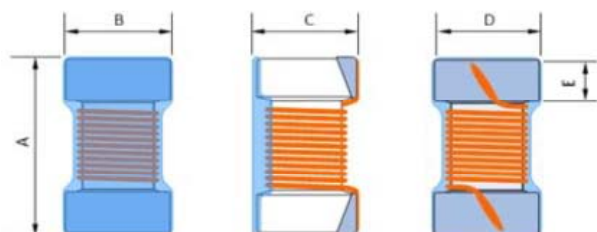
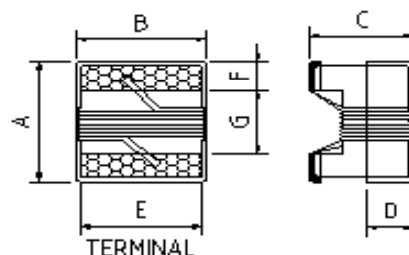


FIG 1

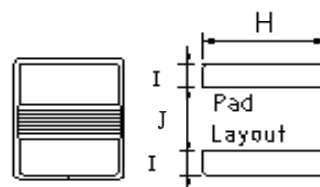


FIG 2

SHAPE & DIMENSIONS

UNIT:mm (inch)

SIZE CODE	A Max.	B Max.	C Max.	D Ref.	E Ref.	F Ref.	G Ref.	H	I	J	
HLC0402CSCCxxxxT13 (0402)	1.20 (0.047)	0.70 (0.028)	0.70 (0.028)	0.50 (0.020)	0.20 (0.020)	-	-	0.65 (0.026)	0.35 (0.014)	0.50 (0.020)	1
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)	2
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)	2
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)	2

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WOUND CHIP INDUCTORS → HLC0603CSCC SERIES

ELECTRICAL CHARACTERISTICS

ORDERING CODE	L	Tolerance	Test	Q	Self Resonant	DC	IDC	900MHz		1.7GHz	
	(nH)	±%	Frequency L/Q(MHz)	Min	Frequency (MHz)TYP	Resistance (Ω)max	(mA)max	L Typ.	Q Typ.	L Typ.	Q Typ.
HLC0603CSCC1N6□T	1.6	10/5	250	24	12500	0.030	700	1.67	49	1.65	63
HLC0603CSCC1N8□T	1.8	10/5	250	16	12500	0.045	700	1.63	35	1.66	50
HLC0603CSCC3N3□T	3.3	10/5	250	18	6000	0.050	700	2.00	35	1.80	50
HLC0603CSCC3N6□T	3.6	10/5	250	22	5900	0.063	700	3.72	53	3.71	65
HLC0603CSCC3N9□T	3.9	10/5	250	22	6900	0.080	700	3.95	49	3.96	67
HLC0603CSCC4N3□T	4.3	10/5	250	22	5900	0.063	700	4.32	50	4.33	70
HLC0603CSCC4N7□T	4.7	10/5	250	20	5800	0.116	700	4.72	47	4.75	57
HLC0603CSCC5N1□T	5.1	10/5	250	20	5700	0.140	700	4.93	47	4.95	56
HLC0603CSCC6N8□T	6.8	10/5	250	27	5800	0.110	700	6.75	60	7.10	81
HLC0603CSCC7N5□T	7.5	10/5	250	28	4800	0.106	700	7.70	60	7.82	65
HLC0603CSCC8N2□T	8.2	10/5	250	28	4700	0.109	700	8.30	60	8.50	60
HLC0603CSCC8N7□T	8.7	10/5	250	28	4600	0.109	700	8.86	62	9.32	58
HLC0603CSCC9N5□T	9.5	10/5	250	28	5400	0.135	700	9.70	59	9.92	61
HLC0603CSCC10N□T	10	10/5/2	250	31	4800	0.130	700	10.00	66	10.60	83
HLC0603CSCC11N□T	11	10/5/2	250	33	4000	0.130	700	11.00	53	11.50	56
HLC0603CSCC12N□T	12	10/5/2	250	35	4000	0.130	700	12.30	72	13.50	83
HLC0603CSCC15N□T	15	10/5/2	250	35	4000	0.170	700	15.40	64	16.80	89
HLC0603CSCC16N□T	16	10/5/2	250	34	3300	0.170	700	16.20	55	17.30	52
HLC0603CSCC18N□T	18	10/5/2	250	35	3100	0.170	700	18.70	70	21.40	69
HLC0603CSCC22N□T	22	10/5/2	250	38	3000	0.190	700	22.80	73	26.10	71
HLC0603CSCC23N□T	23	10/5/2	250	37	2700	0.145	700	23.00	48	27.00	40
HLC0603CSCC24N□T	24	10/5/2	250	37	2650	0.135	700	24.50	45	28.70	39
HLC0603CSCC27N□T	27	10/5/2	250	40	2800	0.220	600	29.20	74	34.60	65
HLC0603CSCC30N□T	30	10/5/2	250	37	2250	0.144	600	31.40	47	39.90	28
HLC0603CSCC33N□T	33	10/5/2	250	40	2300	0.220	600	36.00	67	49.50	42
HLC0603CSCC36N□T	36	10/5/2	250	38	2080	0.250	600	39.40	47	52.70	24
HLC0603CSCC39N□T	39	10/5/2	250	40	2200	0.250	600	42.70	60	60.20	40
HLC0603CSCC43N□T	43	10/5/2	250	39	2000	0.280	600	47.00	44	64.90	21
HLC0603CSCC47N□T	47	10/5/2	200	38	2000	0.280	600	52.20	62	77.20	35
HLC0603CSCC51N□T	51	10/5/2	200	38	1950	0.290	600	55.00	56	80.00	28
HLC0603CSCC56N□T	56	10/5/2	200	38	1900	0.310	600	62.50	56	97.00	26
HLC0603CSCC68N□T	68	10/5/2	200	37	1700	0.340	600	80.50	54	168.00	21
HLC0603CSCC72N□T	72	10/5/2	150	34	1700	0.490	400	82.00	53	135.00	20
HLC0603CSCC82N□T	82	10/5/2	150	34	1700	0.540	400	96.20	54	177.00	21
HLC0603CSCCR10□T	100	10/5/2	150	34	1400	0.580	400	124.00	49	-	-
HLC0603CSCCR11□T	110	10/5/2	150	32	1350	0.610	300	138.00	43	-	-
HLC0603CSCCR12□T	120	10/5/2	150	32	1300	0.650	300	166.00	39	-	-
HLC0603CSCCR15□T	150	10/5/2	150	28	990	0.920	280	250.00	25	-	-
HLC0603CSCCR18□T	180	10/5/2	100	25	990	1.300	240	305.00	22	-	-
HLC0603CSCCR20□T	200	10/5/2	100	25	900	1.650	220	-	-	-	-
HLC0603CSCCR21□T	210	10/5/2	100	25	900	1.850	210	-	-	-	-
HLC0603CSCCR22□T	220	10/5/2	100	25	900	2.100	200	-	-	-	-
HLC0603CSCCR25□T	250	10/5/2	100	24	900	2.250	180	-	-	-	-
HLC0603CSCCR27□T	270	10/5/2	100	24	900	2.300	170	-	-	-	-
HLC0603CSCCR33□T	330	10/5/2	100	25	900	3.890	100	-	-	-	-
HLC0603CSCCR39□T	390	10/5/2	100	25	600	4.350	100	-	-	-	-

※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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