

SPECIFICATION OF HLC SERIES

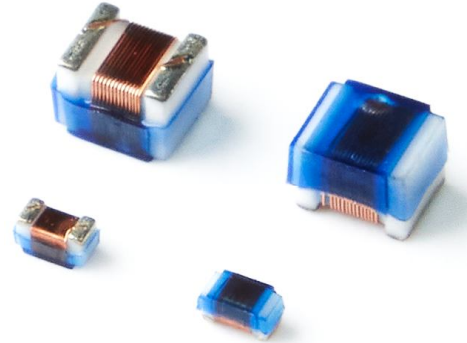
HLC0402/0603/0805CSCC SERIES

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

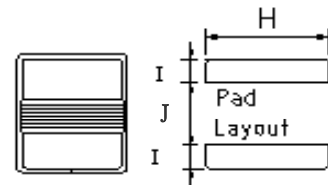
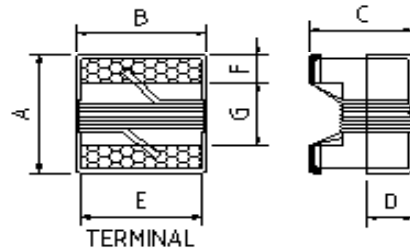
1. THE "HLC" series chip inductors have been designed especially for the needs of today's high frequency designer.
2. Their ceramic construction delivers the highest possible SRFs as well as excellent Q values.
3. The non-magnetic coil form also assures the utmost in thermal stability , predictability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



ORDERING CODE

HLC0805CSCC 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 → HLC0805CSCC 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
HLC0805CSCC2N2□T	2.2	10/5	250	15	1500	6000	0.08	600
HLC0805CSCC3N3□T	3.3	10/5	250	50	1500	6000	0.08	600
HLC0805CSCC5N6□T	5.6	10/5	250	50	1000	5700	0.10	600
HLC0805CSCC6N4□T	6.4	10/5	250	50	1000	5600	0.11	600
HLC0805CSCC6N8□T	6.8	10/5	250	50	1000	5500	0.11	600
HLC0805CSCC8N2□T	8.2	10/5	250	50	1000	4700	0.12	600
HLC0805CSCC12N□T	12	10/5/2	250	50	500	4000	0.15	600
HLC0805CSCC15N□T	15	10/5/2	250	50	500	3400	0.17	600
HLC0805CSCC18N□T	18	10/5/2	250	50	500	3300	0.20	600
HLC0805CSCC22N□T	22	10/5/2	250	55	500	2600	0.22	500
HLC0805CSCC27N□T	27	10/5/2	250	55	500	2500	0.25	500
HLC0805CSCC33N□T	33	10/5/2	250	60	500	2050	0.27	500
HLC0805CSCC39N□T	39	10/5/2	250	60	500	2000	0.29	500
HLC0805CSCC47N□T	47	10/5/2	200	60	500	1650	0.31	500
HLC0805CSCC48N□T	48	10/5/2	200	60	500	1650	0.31	500
HLC0805CSCC56N□T	56	10/5/2	200	60	500	1550	0.34	500
HLC0805CSCC68N□T	68	10/5/2	200	60	500	1450	0.38	500
HLC0805CSCC82N□T	82	10/5/2	150	65	500	1300	0.42	400
HLC0805CSCCR10□T	100	10/5/2	150	65	500	1200	0.46	400
HLC0805CSCCR11□T	110	10/5/2	150	50	250	1000	0.48	400
HLC0805CSCCR12□T	120	10/5/2	150	50	250	1100	0.51	400
HLC0805CSCCR15□T	150	10/5/2	100	50	250	920	0.56	400
HLC0805CSCCR18□T	180	10/5/2	100	50	250	870	0.64	400
HLC0805CSCCR22□T	220	10/5/2	100	50	250	850	0.70	400
HLC0805CSCCR27□T	270	10/5/2	100	40	100	650	1.00	350
HLC0805CSCCR33□T	330	10/5/2	100	40	100	600	1.40	310
HLC0805CSCCR39□T	390	10/5/2	100	40	100	560	1.50	290
HLC0805CSCCR47□T	470	10/5/2	100	33	100	375	1.76	250
HLC0805CSCCR56□T	560	10/5/2	50	23	50	340	3.50	230
HLC0805CSCCR68□T	680	10/5/2	50	23	50	188	4.00	190
HLC0805CSCCR82□T	820	10/5/2	25	23	50	215	4.50	180
HLC0805CSCC1R0□T	1000	10/5/2	7.96	15	50	150	5.00	120

※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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