

SPECIFICATION OF HLC SERIES

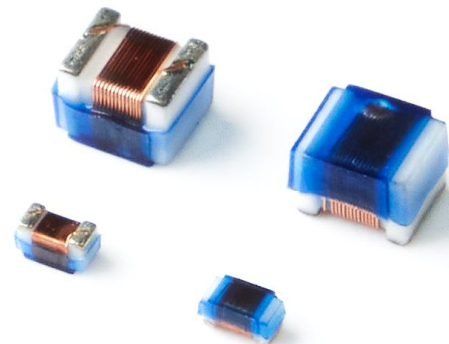
HLC0402/0603/0805CSCC SERIES

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

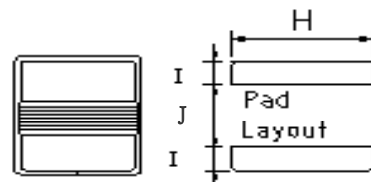
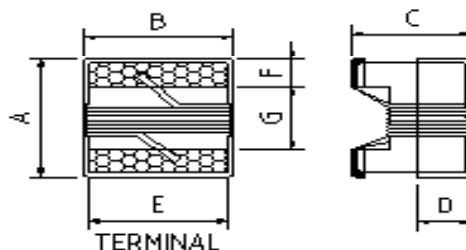
1. THE "HLC" series chip inductors have been designed especially for the needs of today's high frequency designer.
2. Their ceramic construction delivers the highest possible SRFs as well as excellent Q values.
3. The non-magnetic coil form also assures the utmost in thermal stability , predictability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



ORDERING CODE

HLC0402CSCC 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 → HLC0402CSCC SERIES

ELECTRICAL CHARACTERISTICS

ORDERING CODE	L (nH)	Tolerance ±%	Test Frequency (MHz)	Q Min	Test Frequency (MHz)	Self Resonant Frequency (MHz)TYP	DC Resistance (Ω)max	IDC (mA)max
HLC0402CSCC1N0□T	1.0	10/5	250	16	250	12700	0.045	1360
HLC0402CSCC1N2□T	1.2	10/5	250	10	250	10400	0.14	640
HLC0402CSCC1N3□T	1.3	10/5	250	10	250	10400	0.14	640
HLC0402CSCC1N9□T	1.9	10/5	250	16	250	11300	0.07	1040
HLC0402CSCC2N0□T	2.0	10/5	250	16	250	11100	0.07	1040
HLC0402CSCC2N2□T	2.2	10/5	250	19	250	10800	0.07	960
HLC0402CSCC2N4□T	2.4	10/5	250	15	250	10500	0.068	790
HLC0402CSCC2N5□T	2.5	10/5	250	13	250	10400	0.15	640
HLC0402CSCC2N7□T	2.7	10/5	250	16	250	10400	0.15	640
HLC0402CSCC3N3□T	3.3	10/5	250	19	250	7000	0.066	840
HLC0402CSCC3N6□T	3.6	10/5	250	19	250	6800	0.066	840
HLC0402CSCC4N7□T	4.7	10/5	250	15	250	4770	0.13	640
HLC0402CSCC5N6□T	5.6	10/5	250	20	250	4800	0.083	760
HLC0402CSCC6N8□T	6.8	10/5	250	20	250	4800	0.12	680
HLC0402CSCC7N3□T	7.3	10/5	250	20	250	4800	0.12	680
HLC0402CSCC8N2□T	8.2	10/5	250	22	250	4400	0.10	680
HLC0402CSCC8N7□T	8.7	10/5	250	18	250	4100	0.20	480
HLC0402CSCC9N0□T	9.0	10/5	250	22	250	4160	0.10	680
HLC0402CSCC9N1□T	9.1	10/5	250	22	250	4160	0.10	680
HLC0402CSCC9N5□T	9.5	10/5	250	18	250	4000	0.20	480
HLC0402CSCC10N□T	10	10/5	250	21	250	3900	0.20	480
HLC0402CSCC11N□T	11	10/5	250	24	250	3680	0.12	640
HLC0402CSCC12N□T	12	10/5/2	250	24	250	3600	0.12	640
HLC0402CSCC13N□T	13	10/5/2	250	24	250	3450	0.21	440
HLC0402CSCC15N□T	15	10/5/2	250	24	250	3280	0.17	560
HLC0402CSCC16N□T	16	10/5/2	250	24	250	3100	0.22	560
HLC0402CSCC18N□T	18	10/5/2	250	25	250	3100	0.23	420
HLC0402CSCC19N□T	19	10/5/2	250	24	250	3040	0.20	480
HLC0402CSCC20N□T	20	10/5/2	250	25	250	3000	0.25	420
HLC0402CSCC22N□T	22	10/5/2	250	25	250	2800	0.30	400
HLC0402CSCC23N□T	23	10/5/2	250	22	250	2720	0.30	400
HLC0402CSCC24N□T	24	10/5/2	250	25	250	2700	0.30	400
HLC0402CSCC27N□T	27	10/5/2	250	24	250	2480	0.30	400
HLC0402CSCC30N□T	30	10/5/2	250	25	250	2350	0.35	400
HLC0402CSCC33N□T	33	10/5/2	250	24	250	2350	0.40	400
HLC0402CSCC36N□T	36	10/5/2	250	24	250	2320	0.44	320
HLC0402CSCC39N□T	39	10/5/2	250	25	250	2100	0.55	200
HLC0402CSCC40N□T	40	10/5/2	250	24	250	2240	0.65	320
HLC0402CSCC47N□T	47	10/5/2	250	20	250	2100	0.83	150
HLC0402CSCC56N□T	56	10/5/2	250	22	250	1760	0.97	100
HLC0402CSCC68N□T	68	10/5/2	250	22	250	1620	1.12	100
HLC0402CSCC72N□T	72	10/5/2	250	20	250	1260	2.00	30
HLC0402CSCC82N□T	82	10/5/2	250	20	250	1260	1.85	50
HLC0402CSCCR10□T	100	10/5/2	250	20	250	1160	2.00	30
HLC0402CSCCR18□T	180	10/5/2	100	8	100	700	2.70	50
HLC0402CSCCR22□T	220	10/5/2	100	8	100	700	4.00	50

※Operating temperature range : -40 to +125°C (including self-heating)

※Means the inductance tolerance, Tolerance :B=±0.1nH, G = 2% , J = 5% , K = 10%

※IDC:Based on Temperature increase 40°C

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