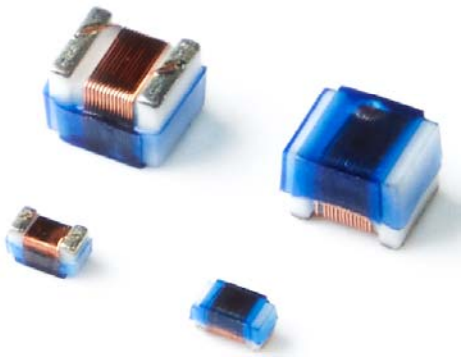
SPECIFICATION OF HLC SERIES

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 1N0 J T 13

(1) (2) (3) (4) (5)

(1) PRODUCT TYPE CODE AND SIZE CODE

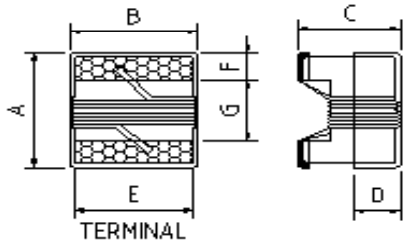
(2) INDUCTANCE

(3) INDUCTANCE TOLERANCE

(G : ±2%, J : ±5%, K : ±10%)

(4) REEL TAPING

(5)REF Code



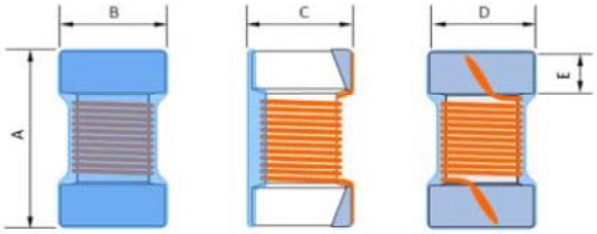


FIG 1

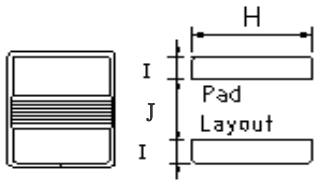


FIG 2

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

※All the data listed in this catalogue are for reference only, King Core reserves the right to alter or revise the specifications without prior notification.

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WOUND CHIP INDUCTORS → HLC0402CSCCxxxxT13 SERIES

ELECTRICAL CHARACTERISTICS

ORDERING CODE	L (nH)	Tolerance ±%	L Test Frequency (MHz)	Q Min	Q Test Frequency (MHz)	Self Resonant Frequency (MHz)Min	DC Resistance (Ω)max	IDC (mA)max
HLC0402CSCC1N0□T13	1.0	10/5	250	17	250	12700	0.045	1360
HLC0402CSCC1N2□T13	1.2	10/5	250	10	250	6000	0.140	640
HLC0402CSCC1N8□T13	1.8	10/5	250	20	250	12000	0.070	1040
HLC0402CSCC1N9□T13	1.9	10/5	250	20	250	11300	0.070	1040
HLC0402CSCC2N0□T13	2.0	10/5	250	23	250	11000	0.070	1040
HLC0402CSCC2N2□T13	2.2	10/5	250	22	250	10800	0.070	960
HLC0402CSCC2N4□T13	2.4	10/5	250	18	250	6000	0.091	650
HLC0402CSCC2N7□T13	2.7	10/5	250	24	250	10400	0.120	790
HLC0402CSCC3N3□T13	3.3	10/5	250	24	250	7000	0.066	840
HLC0402CSCC3N6□T13	3.6	10/5	250	24	250	6800	0.066	840
HLC0402CSCC3N9□T13	3.9	10/5	250	24	250	6000	0.066	840
HLC0402CSCC4N3□T13	4.3	10/5	250	22	250	6000	0.091	700
HLC0402CSCC4N7□T13	4.7	10/5	250	20	250	4770	0.130	640
HLC0402CSCC5N1□T13	5.1	10/5	250	23	250	4800	0.083	800
HLC0402CSCC5N6□T13	5.6	10/5	250	25	250	4800	0.083	760
HLC0402CSCC6N2□T13	6.2	10/5	250	25	250	4800	0.083	760
HLC0402CSCC6N8□T13	6.8	10/5	250	24	250	4800	0.083	680
HLC0402CSCC7N5□T13	7.5	10/5	250	25	250	4800	0.100	680
HLC0402CSCC8N2□T13	8.2	10/5	250	25	250	4400	0.100	680
HLC0402CSCC8N7□T13	8.7	10/5	250	25	250	4100	0.200	480
HLC0402CSCC9N0□T13	9.0	10/5	250	25	250	4160	0.100	680
HLC0402CSCC10N□T13	10	10/5	250	24	250	3900	0.200	480
HLC0402CSCC11N□T13	11	10/5/2	250	26	250	3680	0.120	640
HLC0402CSCC12N□T13	12	10/5/2	250	26	250	3600	0.120	640
HLC0402CSCC13N□T13	13	10/5/2	250	24	250	3450	0.210	440
HLC0402CSCC15N□T13	15	10/5/2	250	26	250	3280	0.170	560
HLC0402CSCC16N□T13	16	10/5/2	250	25	250	3100	0.220	560
HLC0402CSCC18N□T13	18	10/5/2	250	25	250	3100	0.230	420
HLC0402CSCC20N□T13	20	10/5/2	250	26	250	3000	0.250	420
HLC0402CSCC22N□T13	22	10/5/2	250	25	250	2800	0.300	400
HLC0402CSCC23N□T13	23	10/5/2	250	28	250	2720	0.300	400
HLC0402CSCC24N□T13	24	10/5/2	250	25	250	2700	0.300	400
HLC0402CSCC27N□T13	27	10/5/2	250	25	250	2500	0.380	320
HLC0402CSCC30N□T13	30	10/5/2	250	25	250	2350	0.300	400
HLC0402CSCC33N□T13	33	10/5/2	250	24	250	2350	0.300	400
HLC0402CSCC36N□T13	36	10/5/2	250	24	250	2320	0.440	320
HLC0402CSCC39N□T13	39	10/5/2	250	26	250	2100	0.550	200
HLC0402CSCC43N□T13	43	10/5/2	250	25	250	2030	0.810	100
HLC0402CSCC47N□T13	47	10/5/2	250	25	250	2100	0.830	150
HLC0402CSCC56N□T13	56	10/5/2	250	25	250	1750	0.970	100
HLC0402CSCC68N□T13	68	10/5/2	250	25	250	2500	1.350	170
HLC0402CSCC82N□T13	82	10/5/2	250	25	250	1260	1.550	50
HLC0402CSCCR10N□T13	100	10/5/2	250	24	250	1160	2.000	30

※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℃

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