Multilayer Chip Ceramic Inductor 叠层片式陶瓷电感

FEATURES 特点

- Mnolithic construction yields high reliability
  独石结构，高可靠性
- High self-resonant frequency 高自谐振频率
- Excellent solderability and heat resistance for either flow or reflow soldering 良好的可焊性和耐焊性

APPLICATIONS 应用

- High frequency circuits of telecommunication. 通讯产品的射频模块
- Mobile phones such as GSM, CDMA, PDC, etc. GSM、CDMA、PDC手机
- "Bluetooth" 蓝牙模块
- Other High frequency circuits in general 其它高频线路应用中

Product Identification 产品标识

HLCI	1608	H	10N	J	T	-	LF
①	②	③	④	⑤	⑥		⑦

① Series name 系列名称

② Dimension 产品尺寸 L×W：【1608: 1.6mm×0.8mm】

③Material code 材料代码

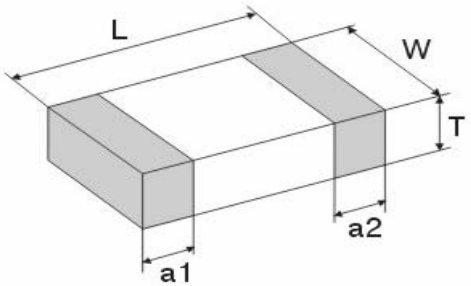
④Inductance 电感量：【3N3=3.3 nH 10N=10 nH R10=100 nH】

⑤Tolerance of Inductance 电感量公差：【S:±0.3nH D:±0.5nH J: ±5% K: ±10%】

⑥Packing Style：【 T: Taping 编带盘装 B: Bulk 散装】

⑦ Lead free products 无铅产品

Shapes And Dimensions 外形及尺寸示意图



Type 型号	Dimensions (mm) [inch]			
	L长	W宽	T高	a1, a2
0603 [0201]	0.60±0.05 [0.024±0.002]	0.30±0.05 [0.012±0.002]	0.30±0.05 [0.012±0.002]	0.10±0.20 [0.004~0.008]
1005 [0402]	1.00±0.15 [0.04±0.006]	0.50±0.15 [0.02±0.006]	0.50±0.15 [0.02±0.006]	0.25±0.10 [0.01±0.004]
1608 [0603]	1.60±0.15 [0.063±0.006]	0.80±0.15 [0.031±0.006]	0.80±0.15 [0.031±0.006]	0.30±0.20 [0.012±0.008]
2012 [0805]	2.00±0.20 [0.079±0.008]	1.25±0.20 [0.049±0.008]	0.85±0.30 [0.033±0.012] 1.00±0.30 [0.04±0.012]	0.50±0.30 [0.02±0.012]

Electrical Characteristics

HLCI 0603 (0201) Series

Part No.	L(nH)	L Test Freq. (MHz)	Q Min			SRF(MHz) Min.	DCR(Ω) Max.	Ir(mA) (max)
			100 MHz	800 MHz	1800 MHz			
HLCI0603H1N0 □	1.0	100	4.0	12.0	16.0	20000	0.15	170
HLCI0603H1N2 □	1.2	100	4.0	12.0	17.0	20000	0.15	170
HLCI0603H1N5 □	1.5	100	4.1	11.8	17.0	20000	0.15	170
HLCI0603H1N8 □	1.8	100	4.1	12.0	18.0	20000	0.20	170
HLCI0603H2N2 □	2.2	100	4.2	11.8	18.5	20000	0.20	150
HLCI0603H2N7 □	2.7	100	3.9	10.3	16.2	20000	0.25	150
HLCI0603H3N3 □	3.3	100	4.3	11.5	18.2	20000	0.30	150
HLCI0603H3N9 □	3.9	100	5.5	12.1	19.3	1800	0.35	150
HLCI0603H4N7 □	4.7	100	5.6	12.0	19.0	9600	0.40	150
HLCI0603H5N6 □	5.6	100	4.7	12.5	20.0	9100	0.45	150
HLC0603H6N8 □	6.8	100	4.7	12.5	20.0	8400	0.50	150
HLCI0603H8N2 □	8.2	100	4.4	10.7	16.0	7600	0.60	150
HLCI0603H10N □	10	100	5.0	13.0	20.0	6700	0.70	150

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HLCI 1005 (0402) Series

Part No.	L(nH)	L Test Freq. (MHz)	Q Min			SRF(MHz) Min.	DCR(Ω) Max.	Ir(mA) (max)
			100 MHz	800 MHz	1800 MHz			
HLCI1005T1N0 ☐	1.0	100	9	44	50	10000	0.08	400
HLCI1005T1N2 ☐	1.2	100	9	44	50	10000	0.08	400
HLCI1005T1N5 ☐	1.5	100	9	43	48	6000	0.10	400
HLCI1005T1N8 ☐	1.8	100	9	35	45	6000	0.12	400
HLCI1005T2N2 ☐	2.2	100	9	30	43	6000	0.12	400
HLCI1005T2N7 ☐	2.7	100	9	30	40	6000	0.13	400
HLCI1005T3N3 ☐	3.3	100	9	30	40	6000	0.15	400
HLCI1005T3N9 ☐	3.9	100	9	30	41	4500	0.21	400
HLCI1005T4N7 ☐	4.7	100	9	30	36	4500	0.21	300
HLCI1005T5N6 ☐	5.6	100	9	29	36	4000	0.23	300
HLCI1005T6N8 ☐	6.8	100	9	29	35	4000	0.25	300
HLCI1005T8N2 ☐	8.2	100	9	29	35	3600	0.35	300
HLCI1005T10N ☐	10	100	9	28	35	3200	0.42	300
HLCI1005T12N ☐	12	100	9	28	28	2800	0.50	300
HLCI1005T15N ☐	15	100	9	28	24	2500	0.60	300
HLCI1005T18N ☐	18	100	9	27	20	2200	0.80	300
HLCI1005T22N ☐	22	100	9	26	12	1900	0.85	300
HLCI1005T27N ☐	27	100	9	23		1600	1.00	300
HLCI1005T33N ☐	33	100	9	22		1300	1.00	200
HLCI1005T39N ☐	39	100	9	21		1200	1.30	200
HLCI1005T47N ☐	47	100	9	20		1000	1.50	200
HLCI1005T56N ☐	56	100	9	17		750	1.80	200
HLCI1005T68N ☐	68	100	9	15		750	1.95	180
HLCI1005T82N ☐	82	100	9			600	2.10	150
HLCI1005TR10 ☐	100	100	9			600	2.50	150
HLCI1005TR12 ☐	120	100	9			600	2.80	150

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HLCI 1608 (0603) Series

Part No.	L (nH)	Q /min	L,Q Test Freq. (MHz)	SRF(MHz) /min	RDC(Ω) /max	Ir(mA) /max
HLCI1608H1N0 ☐	1.0	8	100	>10000	0.05	500
HLCI1608H1N2 ☐	1.2	8	100	>10000	0.05	500
HLCI1608H1N5 ☐	1.5	8	100	>10000	0.10	500
HLCI1608H1N8 ☐	1.8	8	100	>10000	0.10	500
HLCI1608H2N2 ☐	2.2	8	100	10000	0.10	500
HLCI1608H2N7 ☐	2.7	10	100	9000	0.10	500
HLCI1608H3N3 ☐	3.3	10	100	8000	0.12	500
HLCI1608H3N9 ☐	3.9	10	100	7000	0.14	500
HLCI1608H4N7 ☐	4.7	10	100	5500	0.16	500
HLCI1608H5N6 ☐	5.6	10	100	4500	0.18	500
HLCI1608H6N8 ☐	6.8	10	100	4000	0.22	500
HLCI1608H8N2 ☐	8.2	10	100	3600	0.24	500
HLCI1608H10N ☐	10.0	12	100	3400	0.26	300
HLCI1608H12N ☐	12.0	12	100	2800	0.30	300
HLCI1608H15N ☐	15.0	12	100	2500	0.32	300
HLCI1608H18N ☐	18.0	12	100	2100	0.35	300
HLCI1608H22N ☐	22.0	12	100	1700	0.40	300
HLCI1608H27N ☐	27.0	12	100	1500	0.45	300
HLCI1608H33N ☐	33.0	12	100	1300	0.55	300
HLCI1608H39N ☐	39.0	12	100	1100	0.60	300
HLCI1608H47N ☐	47.0	12	100	1000	0.70	300
HLCI1608H56N ☐	56.0	12	100	900	0.75	300
HLCI1608H68N ☐	68.0	12	100	700	0.85	300
HLCI1608H82N ☐	82.0	12	100	600	0.95	300
HLCI1608HR10 ☐	100.0	12	100	600	1.00	300
HLCI1608HR12 ☐	120.0	8	50	500	1.30	300
HLCI1608HR15 ☐	150.0	8	50	500	1.50	300
HLCI1608HR18 ☐	180.0	8	50	400	1.80	300
HLCI1608HR22 ☐	220.0	8	50	400	2.10	300
HLCI1608HR27 ☐	270.0	8	50	350	2.40	300

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HLCI 2012 (0805) Series

Part No.	L (nH)	Q /min	L,Q Test Freq. (MHz)	SRF(MHz) /min	RDC(Ω) /max	Ir(mA) /max
HLCI2012H1N5 □	1.5	10	100	6000	0.10	600
HLCI2012H1N8 □	1.8	10	100	6000	0.10	600
HLCI2012H2N2 □	2.2	10	100	6000	0.10	600
HLCI2012H2N7 □	2.7	12	100	6000	0.10	600
HLCI2012H3N3 □	3.3	12	100	6000	0.13	600
HLCI2012H3N9 □	3.9	12	100	5000	0.15	600
HLCI2012H4N7 □	4.7	12	100	4000	0.20	400
HLCI2012H5N6 □	5.6	15	100	3500	0.23	400
HLCI2012H6N8 □	6.8	15	100	2800	0.25	400
HLCI2012H8N2 □	8.2	15	100	2400	0.28	400
HLCI2012H10N □	10	15	100	2100	0.30	300
HLCI2012H12N □	12	15	100	1900	0.35	300
HLCI2012H15N □	15	15	100	1800	0.40	300
HLCI2012H18N □	18	15	100	1500	0.45	300
HLCI2012H22N □	22	15	100	1400	0.50	300
HLCI2012H27N □	27	15	100	1300	0.55	300
HLCI2012H33N □	33	15	100	1200	0.60	300
HLCI2012H39N □	39	15	100	1000	0.65	300
HLCI2012H47N □	47	15	100	900	0.70	300
HLCI2012H56N □	56	15	100	800	0.75	300
HLCI2012H68N □	68	15	100	700	0.80	300
HLCI2012H82N □	82	15	100	600	0.90	300
HLCI2012HR10 □	100	15	100	600	0.90	300
HLCI2012HR12 □	120	13	100	500	0.95	300
HLCI2012HR15 □	150	13	50	500	1.00	300
HLCI2012HR18 □	180	13	50	400	1.20	300
HLCI2012HR22 □	220	12	50	350	1.40	300
HLCI2012HR27 □	270	12	50	300	1.70	300
HLCI2012HR33 □	330	12	50	250	2.00	300
HLC12012HR3□	390	10	50	250	2.50	300
HLC12012HR4□	470	10	50	200	2.80	300

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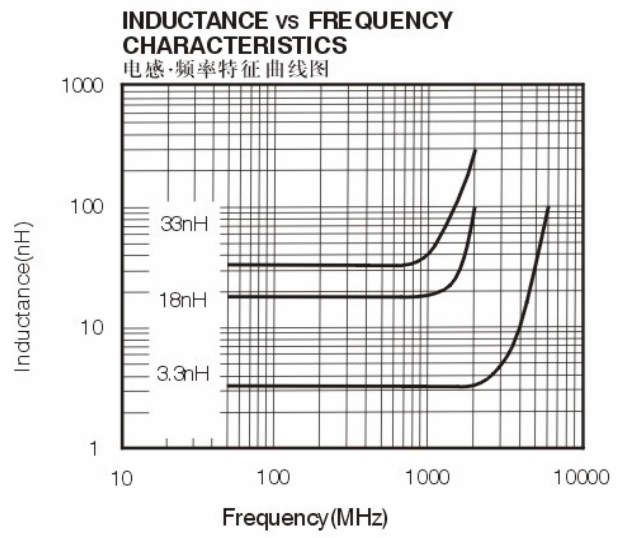
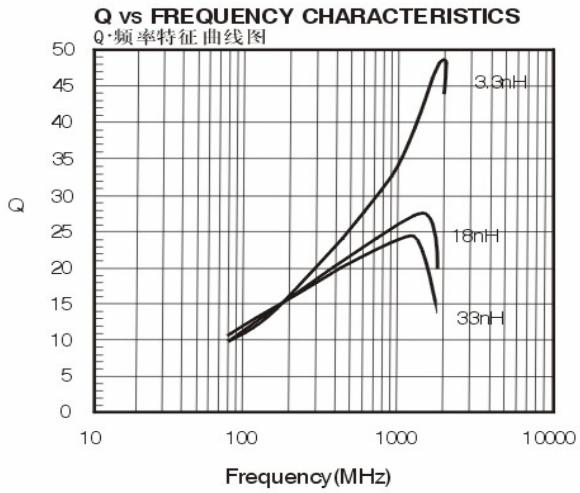
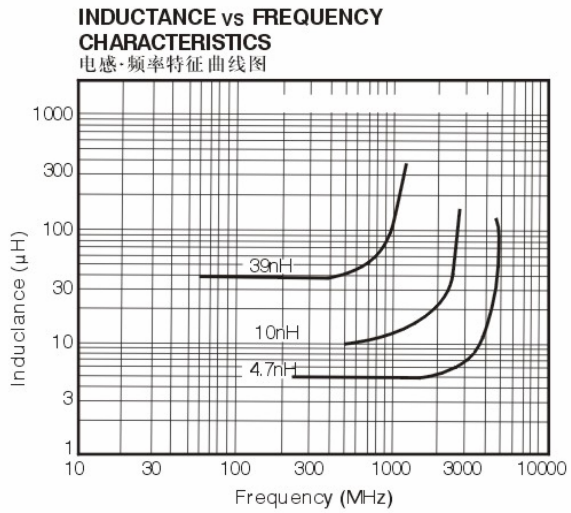
Characteristic curve 特性曲线

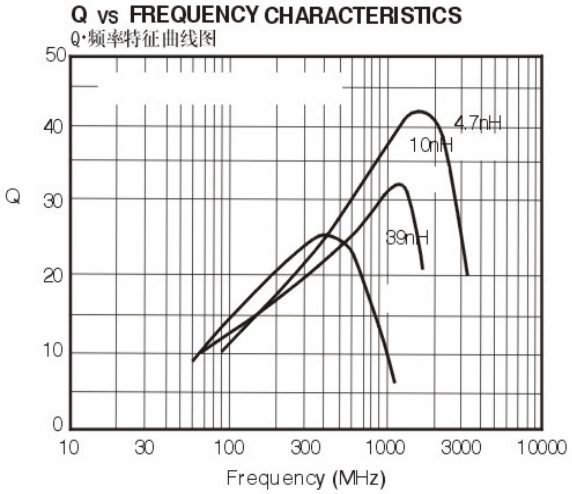
HLCI 1005 (0402) Series





HLCI 1608 (0603) Series





MGCI 2012 (0805) Series