

## 叠层高频电感器-HSCL系列

### 产品特征 FEATURES

- 叠层独石结构，可靠性高 Monolithic structure for high reliability
- 高自谐频率 High self-resonant frequency
- 可焊性和耐焊性非常好 Excellent solderability and high heat resistance

### 产品应用APPLICATIONS

- 通讯电子设备等射频电路 RF circuit in telecommunication and other equipments

### 产品型号 PRODUCT IDENTIFICATION

HSCL    1608    C    1R0    N  
 ①            ②            ③            ④            ⑤

① 系列 Type	
HSCL	叠层高频电感 Chip Ceramic Inductor

② 外形尺寸 (L*W) External Dimensions	
1005	1.0*0.5
1608	1.6*0.8

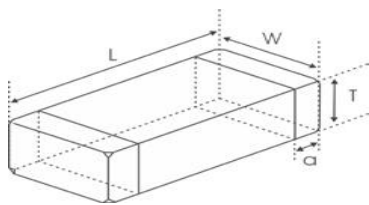
③ 内部代号 Code	
C	

⑤ 精度 Inductance Tolerance	
B	±0.1nH
C	±0.2nH
S	±0.3nH
H	±3%
J	±5%
K	±10%

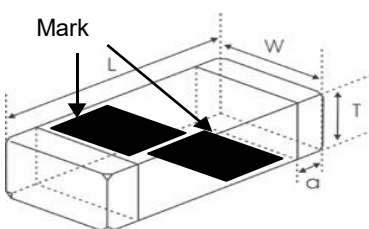
④ 电感量 Nominal Inductance	
2N2	2.2nH
10N	10nH
R10	100nH

### 外观尺寸 SHAPE AND DIMENSIONS

Unit: mm



Type	L	W	T	a
HSCL1005	1.0±0.15	0.5±0.15	0.5±0.15	0.25±0.15
HSCL1608	1.6±0.15 1.65±0.15	0.8±0.15	0.8±0.15	0.3±0.15



Type	L	W	T	a
HSCL1005	1.0±0.15	0.5±0.15	0.5±0.15	0.25±0.15
HSCL1608	1.6±0.15 1.65±0.15	0.8±0.15	0.8±0.15	0.3±0.15

# 规格特性 SPECIFICATIONS

## HSCL1005-Series

Part Number	Inductance	Tolerance	Quality factor	L Test Condition	Typical Q @ Freq. (MHz)			Self-resonant Frequency	DC Resistance	MAX. rated Current
					100	800	1000			
单位 Units	nH	-	-	MHZ	100	800	1000	MHZ	Ω	mA
符号 Symbol	L	-	Q	Freq.	Q			S. R. F	DCR	I <sub>rms</sub>
HSCL1005C0N6□	0.6	B, C, S	4	100	6	35	41	10000	0.10	800
HSCL1005C1N0□	1.0	B, C, S	8	100	11	34	36	10000	0.10	400
HSCL1005C1N1□	1.1	B, C, S	8	100	11	34	36	10000	0.10	400
HSCL1005C1N2□	1.2	B, C, S	8	100	11	34	36	10000	0.10	400
HSCL1005C1N3□	1.3	B, C, S	8	100	11	34	36	10000	0.10	400
HSCL1005C1N5□	1.5	B, C, S	8	100	11	34	36	6000	0.10	300
HSCL1005C1N6□	1.6	B, C, S	8	100	11	32	35	6000	0.10	300
HSCL1005C1N8□	1.8	B, C, S	8	100	11	30	34	6000	0.10	300
HSCL1005C2N0□	2.0	B, C, S	8	100	10	29	33	6000	0.20	300
HSCL1005C2N2□	2.2	B, C, S	8	100	10	29	33	6000	0.20	300
HSCL1005C2N4□	2.4	B, C, S	8	100	10	29	32	6000	0.20	300
HSCL1005C2N7□	2.7	B, C, S	8	100	10	29	32	6000	0.20	300
HSCL1005C3N0□	3.0	B, C, S	8	100	10	29	32	6000	0.20	300
HSCL1005C3N3□	3.3	B, C, S	8	100	10	29	32	6000	0.20	300
HSCL1005C3N6□	3.6	B, C, S	8	100	10	28	31	4000	0.20	300
HSCL1005C3N9□	3.9	B, C, S	8	100	10	28	31	4000	0.20	300
HSCL1005C4N3□	4.3	B, C, S	8	100	10	28	31	4000	0.20	300
HSCL1005C4N7□	4.7	B, C, S	8	100	10	28	31	4000	0.20	300
HSCL1005C5N1□	5.1	B, C, S	8	100	10	28	30	4000	0.30	300
HSCL1005C5N6□	5.6	B, C, S	8	100	10	28	30	4000	0.30	300
HSCL1005C6N2□	6.2	B, C, S	8	100	10	27	30	3900	0.30	300
HSCL1005C6N8□	6.8	H, J, K	8	100	10	27	30	3900	0.30	300
HSCL1005C7N5□	7.5	H, J, K	8	100	10	27	30	3700	0.40	300
HSCL1005C8N2□	8.2	H, J, K	8	100	10	27	30	3600	0.40	300
HSCL1005C9N1□	9.1	H, J, K	8	100	10	27	30	3400	0.40	300
HSCL1005C10N□	10	H, J, K	8	100	10	27	30	3200	0.40	300
HSCL1005C12N□	12	H, J, K	8	100	10	26	29	2700	0.50	300
HSCL1005C15N□	15	H, J, K	8	100	10	26	28	2300	0.50	300
HSCL1005C18N□	18	H, J, K	8	100	10	25	27	2100	0.60	300
HSCL1005C20N□	20	H, J, K	8	100	10	25	26	2000	0.60	300
HSCL1005C22N□	22	H, J, K	8	100	10	25	25	1900	0.60	300
HSCL1005C27N□	27	H, J, K	8	100	10	25	23	1600	0.70	300
HSCL1005C33N□	33	H, J, K	8	100	10	22	22	1300	0.80	200
HSCL1005C39N□	39	H, J, K	8	100	10	22	19	1200	1.00	200
HSCL1005C43N□	43	H, J, K	8	100	10	21	16	1100	1.10	200
HSCL1005C47N□	47	H, J, K	8	100	10	21	16	1000	1.10	200
HSCL1005C56N□	56	H, J, K	8	100	10	18	13	750	1.20	200
HSCL1005C68N□	68	H, J, K	8	100	10	18	9	750	1.40	180
HSCL1005C82N□	82	H, J, K	8	100	10	13	-	750	2.40	150
HSCL1005CR10□	100	H, J, K	8	100	10	12	-	700	2.60	150
HSCL1005CR12□	120	H, J, K	8	100	10	-	-	600	2.80	150
HSCL1005CR15□	150	H, J, K	8	100	10	-	-	550	3.20	100
HSCL1005CR18□	180	H, J, K	8	100	10	-	-	500	3.70	100
HSCL1005CR22□	220	H, J, K	8	100	12	-	-	450	4.00	100
HSCL1005CR27□	270	H, J, K	8	100	12	-	-	400	4.50	100
HSCL1005CR30□	300	H, J, K	8	100	12	-	-	400	4.50	100

## 规格特性 SPECIFICATIONS

### HSCL1005-Series

Part Number	Inductance	Tolerance	Quality factor	L Test Condition	Typical Q @ Freq. (MHz)			Self-resonant Frequency	DC Resistance	MAX. rated Current
单位 Units	nH	-	-	MHZ	100	800	1000	MHZ	Ω	mA
符号 Symbol	L	-	Q	Freq.	Q			S. R. F	DCR	Irms
HSCL1005CR33□	330	H, J, K	6	50	8	-	-	350	7.00	50
HSCL1005CR36□	360	H, J, K	6	50	8	-	-	300	7.50	50

### HSCL1608-Series

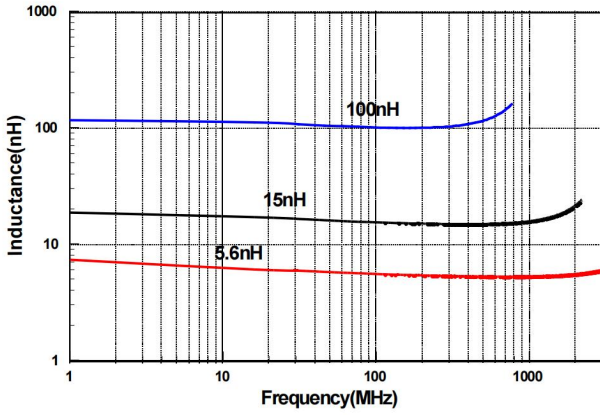
Part Number	Inductance	Tolerance	Quality factor	L Test Condition	Typical Q @ Freq. (MHz)			Self-resonant Frequency	DC Resistance	MAX. rated Current
单位 Units	nH	-	-	MHZ	100	800	1000	MHZ	Ω	mA
符号 Symbol	L	-	Q	Freq.	Q			S. R. F	DCR	Irms
HSCL1608C1N0□	1.0	B, C, S	8	100	13	70	80	10000	0.05	500
HSCL1608C1N2□	1.2	B, C, S	8	100	13	60	70	10000	0.05	500
HSCL1608C1N5□	1.5	B, C, S	8	100	13	47	68	6000	0.10	500
HSCL1608C1N8□	1.8	B, C, S	8	100	13	45	61	6000	0.10	500
HSCL1608C2N2□	2.2	B, C, S	8	100	13	45	60	6000	0.10	500
HSCL1608C2N7□	2.7	B, C, S	10	100	13	44	55	6000	0.12	500
HSCL1608C3N3□	3.3	B, C, S	10	100	13	43	50	6000	0.15	500
HSCL1608C3N9□	3.9	B, C, S	10	100	13	43	50	6000	0.16	500
HSCL1608C4N7□	4.7	B, C, S	10	100	13	43	50	6000	0.20	500
HSCL1608C5N6□	5.6	B, C, S	10	100	14	42	48	5000	0.25	500
HSCL1608C6N8□	6.8	H, J, K	10	100	14	43	50	5000	0.30	500
HSCL1608C8N2□	8.2	H, J, K	10	100	14	43	48	4500	0.35	500
HSCL1608C10N□	10	H, J, K	12	100	15	45	50	3500	0.40	300
HSCL1608C12N□	12	H, J, K	12	100	18	48	50	3000	0.45	300
HSCL1608C15N□	15	H, J, K	12	100	18	48	50	2300	0.50	300
HSCL1608C18N□	18	H, J, K	12	100	16	48	51	2200	0.55	300
HSCL1608C22N□	22	H, J, K	12	100	16	45	48	2000	0.60	300
HSCL1608C27N□	27	H, J, K	12	100	16	45	45	1700	0.65	300
HSCL1608C33N□	33	H, J, K	12	100	16	45	41	1500	0.70	300
HSCL1608C39N□	39	H, J, K	12	100	17	40	48	1400	0.70	300
HSCL1608C47N□	47	H, J, K	12	100	17	35	35	1200	0.70	300
HSCL1608C56N□	56	H, J, K	12	100	17	35	30	1100	0.75	300
HSCL1608C68N□	68	H, J, K	12	100	17	30	20	900	0.85	300
HSCL1608C82N□	82	H, J, K	8	100	15	22	-	800	1.00	300
HSCL1608CR10□	100	H, J, K	8	100	15	16	-	700	1.20	300
HSCL1608CR12□	120	H, J, K	8	50	15	-	-	600	1.40	200
HSCL1608CR15□	150	H, J, K	8	50	15	-	-	500	1.60	200
HSCL1608CR18□	180	H, J, K	8	50	15	-	-	400	1.90	200
HSCL1608CR22□	220	H, J, K	8	50	15	-	-	350	2.40	200
HSCL1608CR27□	270	H, J, K	8	50	16	-	-	350	2.60	150
HSCL1608CR33□	330	H, J, K	8	50	16	-	-	350	2.80	150
HSCL1608CR39□	390	H, J, K	8	50	16	-	-	300	3.20	150
HSCL1608CR43□	430	H, J, K	8	50	16	-	-	280	3.40	150
HSCL1608CR47□	470	H, J, K	8	50	15	-	-	250	3.60	150
HSCL1608CR56□	560	H, J, K	8	50	15	-	-	250	4.00	100
HSCL1608CR68□	680	H, J, K	8	50	15	-	-	250	4.50	100

Please specify the inductance tolerance. For L≤6.2nH, choose B=±0.1nH, C=±0.2nH or S=±0.3nH; For L>6.2nH, choose H=±3%, J=±5% or K=±10%.

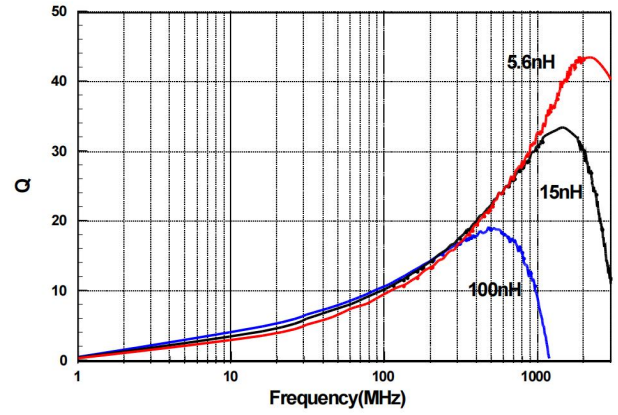
电气特性 TYPICAL ELECTRICAL CHARACTERISTICS

HSCL1005- Series

Inductance vs. Frequency Characteristics

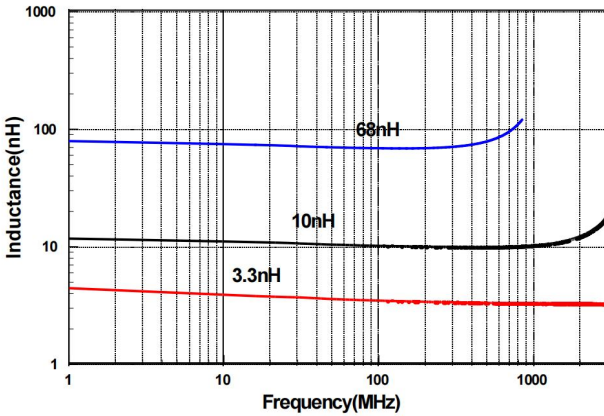


Q vs. Frequency Characteristics



HSCL1608- Series

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics

