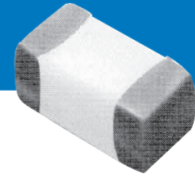


叠层片式超高频电感—SDHL 系列

Multilayer Chip High Frequency Inductor—SDHL Series



工作温度	◆ SDHL1005	-55°C ~ +125°C
Operating Temp	◆ SDHL1608	-40°C ~ +85°C

特征	◆ 比 SDCL 系列更高的自谐振频率	◆ Higher self-resonant frequency than SDCL series inductors
Features	◆ 体积小, 重量轻	◆ Ultra miniature size and light weight
	◆ 无极性	◆ No polarity
	◆ 良好的可焊性和耐焊性	◆ Excellent solderability and high heat resistance

用途	◆ 蓝牙模块	◆ Bluetooth module
Applications	◆ 移动电话、对讲机等通讯产品的射频模块	◆ RF module of telecommunication products, such as mobile phone, Two-Way Radios, etc.
	◆ 功率放大模块	◆ Power AMP module
	◆ 计算机通信, 雷达探测器	◆ Computer communications, radar detectors

产品型号

Product Identification

1

SDHL

2

1005

3

C

4

10N

5

J

6

T

7

D

8

F

1

分类 Type

SDHL

叠层片式超高频电感
Chip High Freq.
Inductor

2

外形尺寸 (L×W) (mm)
External Dimensions (L×W) (mm)

1005 [0402]

1.0×0.5

1608 [0603]

1.6×0.8

3

材料代号 Material Code

C

4

公称电感量 Nominal Inductance

Example

Nominal Value

1N0

1.0nH

10N

10nH

R10

100nH

5

电感公差 Inductance Tolerance

C

±0.2nH

S

±0.3nH

J

±5%

K

±10%

6

包装 Packing

T

编带 Tape & Reel

7

内部代号 Internal Code

D

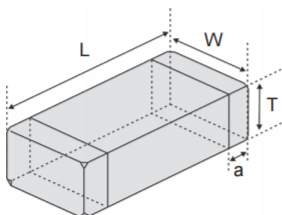
8

无有害物质产品
Hazardous Substance Free Products

F

外观尺寸

Shape and Dimensions



Unit: mm [inch]				
Type	L	W	T	a
SDHL1005 [0402]	1.0±0.15 [.039±.006]	0.5±0.15 [.020±.006]	0.5±0.15 [.020±.006]	0.25±0.1 [.010±.004]
SDHL1608 [0603]	1.6±0.15 [.063±.006]	0.8±0.15 [.031±.006]	0.8±0.15 [.031±.006]	0.3±0.2 [.012±.008]

规格特性 Specifications

SDHL1005 Series

型号 Part Number	电感量 Inductance	品质因子 Min. Quality Factor	测试频率 L, Q Test Freq./ Q	Typical Q @ Freq. (GHz)						自谐频率 Min. Self- resonant Frequency	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current
				0.1	0.3	0.5	0.8	1	1.8			
单位 Units	nH	-	MHz	-						MHz	Ω	mA
符号 Symbol	L	Q	Freq	Q						S.R.F	DCR	I _r
SDHL1005C1N0 □ TDF	1.0	5	100	9	16	20	25	28	31	>8500	0.10	500
SDHL1005C1N2 □ TDF	1.2	5	100	9	15	18	24	27	31	>8500	0.12	500
SDHL1005C1N5 □ TDF	1.5	5	100	7	12	16	20	21	29	>8500	0.15	500
SDHL1005C1N8 □ TDF	1.8	5	100	7	12	16	20	21	29	>8500	0.17	500
SDHL1005C2N2 □ TDF	2.2	5	100	7	12	16	20	21	30	>8500	0.17	500
SDHL1005C2N7 □ TDF	2.7	5	100	7	12	16	20	21	29	>8500	0.20	500
SDHL1005C3N3 □ TDF	3.3	5	100	7	12	15	19	20	27	>8500	0.22	400
SDHL1005C3N9 □ TDF	3.9	5	100	7	12	15	20	21	28	7500	0.25	400
SDHL1005C4N7 □ TDF	4.7	5	100	7	12	15	19	20	27	6500	0.28	400
SDHL1005C5N6 □ TDF	5.6	5	100	8	12	15	20	22	30	6500	0.30	400
SDHL1005C6N8 □ TDF	6.8	5	100	8	12	15	20	22	30	6500	0.35	400
SDHL1005C8N2 □ TDF	8.2	5	100	8	12	15	19	21	30	6500	0.38	350
SDHL1005C10N □ TDF	10	5	100	8	13	16	21	23	32	4700	0.42	350
SDHL1005C12N □ TDF	12	5	100	8	13	16	20	23	27	4300	0.47	350
SDHL1005C15N □ TDF	15	5	100	8	12	15	19	22	28	4000	0.50	300
SDHL1005C18N □ TDF	18	5	100	8	13	16	21	24	32	4000	0.60	250
SDHL1005C22N □ TDF	22	5	100	8	13	17	22	26	31	3500	0.70	200
SDHL1005C27N □ TDF	27	5	100	8	14	18	23	26	32	3000	0.80	200
SDHL1005C33N □ TDF	33	5	100	8	14	17	23	27	32	2500	0.90	200
SDHL1005C39N □ TDF	39	5	100	8	14	18	23	27	32	2000	1.00	200
SDHL1005C47N □ TDF	47	7	100	9	14	18	22	24	29	2400	2.20	100
SDHL1005C56N □ TDF	56	7	100	9	14	18	23	24	29	2300	2.50	100
SDHL1005C68N □ TDF	68	7	100	9	14	17	22	24	29	2200	2.70	100
SDHL1005C82N □ TDF	82	7	100	8	13	17	20	20	16	2100	2.90	100
SDHL1005CR10 □ TDF	100	7	100	8	13	17	20	20	13	2000	3.20	100

※ □ : 请指定电感量精度。当 L≤6.2nH 时, 选择 C=±0.2nH 或 S=±0.3nH; 当 L>6.2nH 时, 选择 J=±5% 或 K=±10%。

※ □ : Please specify the inductance tolerance: For L≤6.2nH, choose C=±0.2nH or S=±0.3nH; For L>6.2nH, choose J=±5% or K=±10%.

SDHL1608 Series

型号 Part Number	电感量 Inductance	品质因子 Min. Quality Factor	测试频率 L, Q Test Freq./ Q	Typical Q @ Freq. (GHz)						自谐频率 Min. Self- resonant Frequency	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current
				0.1	0.3	0.5	0.8	1	1.8			
单位 Units	nH	-	MHz	-						MHz	Ω	mA
符号 Symbol	L	Q	Freq	Q						S.R.F	DCR	I _r
SDHL1608C10N □ TDF	10	8	100	10	22	28	35	39	45	>6000	0.60	500
SDHL1608C12N □ TDF	12	8	100	10	18	23	26	32	42	6000	0.70	500
SDHL1608C15N □ TDF	15	8	100	12	22	28	35	39	42	5500	0.80	500
SDHL1608C18N □ TDF	18	8	100	10	18	22	25	30	43	5200	0.90	300
SDHL1608C22N □ TDF	22	8	100	12	21	27	34	37	37	5000	1.00	300
SDHL1608C27N □ TDF	27	8	100	10	18	24	26	32	38	4800	1.20	300
SDHL1608C33N □ TDF	33	8	100	12	21	27	33	35	31	4500	1.40	300
SDHL1608C39N □ TDF	39	8	100	11	20	26	32	34	29	4000	1.50	200
SDHL1608C47N □ TDF	47	8	100	12	20	26	31	34	27	3500	1.60	200
SDHL1608C56N □ TDF	56	8	100	11	20	26	31	34	24	3000	1.80	200
SDHL1608C68N □ TDF	68	8	100	10	18	21	24	28	20	2800	2.00	200
SDHL1608C82N □ TDF	82	8	100	10	19	22	26	26	15	2500	2.20	200
SDHL1608CR10 □ TDF	100	8	100	10	19	24	27	25	-	2000	2.50	150
SDHL1608CR12 □ TDF	120	8	100	10	19	23	26	24	-	1600	2.80	150
SDHL1608CR15 □ TDF	150	8	100	10	18	24	26	23	-	1400	3.00	150
SDHL1608CR18 □ TDF	180	8	100	10	17	22	23	-	-	1000	3.40	150

※ □ : 请指定电感量精度。J=±5% 或 K=±10%。

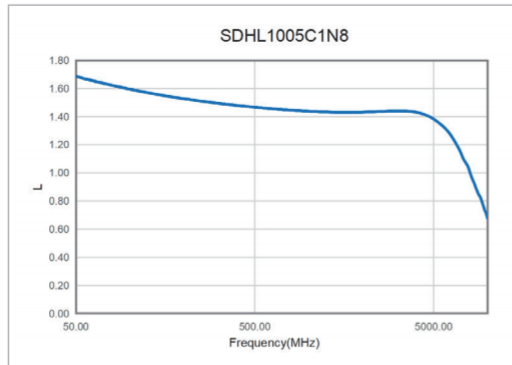
※ □ : Please specify the inductance tolerance: J=±5% or K=±10%.

电气特性

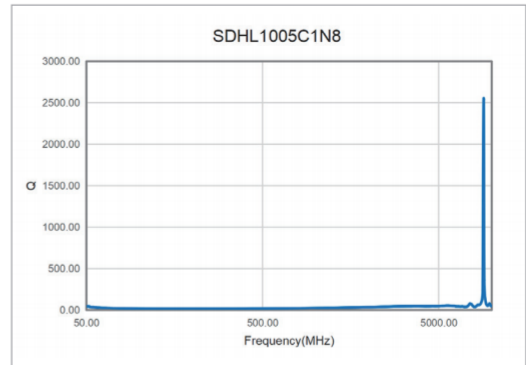
Typical Electrical Characteristics

SDHL1005 Series

Inductance vs. Frequency Characteristics

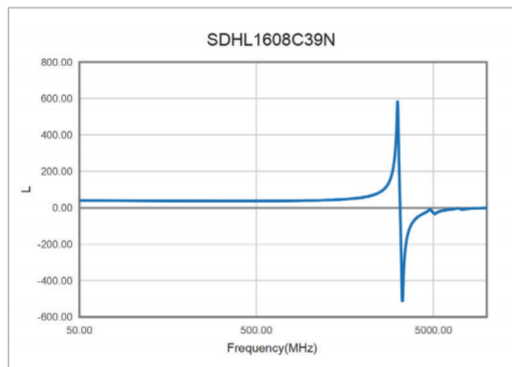


Q vs. Frequency Characteristics



SDHL1608 Series

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics

