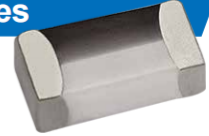


叠层片式陶瓷电感—SDCL0402H-T01 系列

Multilayer Chip Ceramic Inductor—SDCL0402H-T01 Series



工作温度 Operating Temp

- ◆ -55℃ ~ +125℃ (Including self-heating)

特征 Features

- ◆ 迭层独石结构、高度可靠性
- ◆ 高自谐振频率
- ◆ 良好的可焊性和耐焊性
- ◆ 高的 Q 值
- ◆ Monolithic structure for high reliability
- ◆ High self-resonant frequency
- ◆ Excellent solderability and high heat resistance
- ◆ High Q factor

用途 Applications

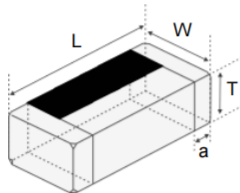
- ◆ 通讯电子设备等的射频线路
- ◆ RF circuit in telecommunication and other equipments

产品型号 Product Identification

1	2	3	4	5	6	7
SDCL	0402	H	3N0	B	T	01

1	分类 Type	2	外形尺寸 (L×W) (mm) External Dimensions (L×W) (mm)	3	特性代号 Characteristics Code
	SDCL 片式陶瓷电感 Chip Ceramic Inductor		0402 [01005] 0.4×0.2		H
4	公称电感量 Nominal Inductance	5	电感公差 Inductance Tolerance	6	包装 Packing
	Example Nominal Value		B ±0.1nH		T 编带 Tape & Reel
	3N0 3.0nH		C ±0.2nH		
	16N 16nH		S ±0.3nH		
	※R= 小数点, N=nH		H ±3%	7	系列代号 Serial Code
			J ±5%		01

外观尺寸 Shape and Dimensions



Unit: mm [inch]

Type	L	W	T	a
SDCL0402H-01 [01005]	0.4±0.02 [.016±.0008]	0.2±0.02 [.008±.0008]	0.2±0.02 [.008±.0008]	0.095±0.025 [.0037±.0010]

规格特性 Specifications

SDCL0402H-T01 Series

型号 Part Number	电感量 Inductance	品质因子 Min. Quality Factor	测试频率 L, Q Test Freq.	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
				0.5	0.8	1.8	2.0	2.4			
单位 Units	nH	-	MHz	-					MHz	Ω	mA
符号 Symbol	L	Q	Freq.	Q					S.R.F	DCR	I _r
SDCL0402H0N2 □ T01	0.2	-	500	12	16	22	26	38	13000	0.4	320
SDCL0402H0N3 □ T01	0.3	-	500	12	15	22	25	36	13000	0.4	320
SDCL0402H0N4 □ T01	0.4	8	500	11	14	21	22	24	13000	0.4	320
SDCL0402H0N5 □ T01	0.5	8	500	10	13	21	23	25	13000	0.4	320
SDCL0402H0N6 □ T01	0.6	8	500	12	14	20	23	25	13000	0.4	320
SDCL0402H0N7 □ T01	0.7	8	500	11	13	21	22	24	13000	0.4	320
SDCL0402H0N8 □ T01	0.8	8	500	10	12	20	21	23	13000	0.4	320
SDCL0402H0N9 □ T01	0.9	8	500	11	13	20	22	24	13000	0.4	320
SDCL0402H1N0 □ T01	1.0	8	500	10	12	19	21	23	11500	0.4	220
SDCL0402H1N1 □ T01	1.1	8	500	11	13	19	22	24	11500	0.4	220
SDCL0402H1N2 □ T01	1.2	8	500	10	12	20	21	23	11500	0.4	220
SDCL0402H1N3 □ T01	1.3	8	500	10	12	19	21	23	11500	0.4	220
SDCL0402H1N4 □ T01	1.4	8	500	11	13	20	21	23	11500	0.4	220
SDCL0402H1N5 □ T01	1.5	8	500	10	13	19	21	24	11500	0.4	220
SDCL0402H1N6 □ T01	1.6	8	500	10	12	19	21	23	11500	0.4	220
SDCL0402H1N7 □ T01	1.7	8	500	11	13	20	21	24	9500	0.5	200
SDCL0402H1N8 □ T01	1.8	8	500	10	12	19	21	23	9000	0.5	200
SDCL0402H1N9 □ T01	1.9	8	500	10	12	20	21	23	9000	0.5	200
SDCL0402H2N0 □ T01	2.0	8	500	11	12	19	21	23	9000	0.5	200
SDCL0402H2N1 □ T01	2.1	8	500	10	12	19	22	24	9000	0.5	200
SDCL0402H2N2 □ T01	2.2	8	500	9.5	11	18	20	22	7500	0.55	200
SDCL0402H2N3 □ T01	2.3	8	500	10	12	19	21	23	7500	0.55	200
SDCL0402H2N4 □ T01	2.4	8	500	10	12	19	21	23	7500	0.55	200
SDCL0402H2N5 □ T01	2.5	8	500	9.5	11	18	20	22	7500	0.6	200
SDCL0402H2N6 □ T01	2.6	8	500	11	12	19	21	23	7500	0.6	200
SDCL0402H2N7 □ T01	2.7	8	500	10	12	19	22	24	7500	0.6	200
SDCL0402H2N8 □ T01	2.8	8	500	10	12	19	21	23	7500	0.8	200
SDCL0402H2N9 □ T01	2.9	8	500	10	12	19	21	23	7500	0.8	200
SDCL0402H3N0 □ T01	3.0	8	500	10	12	19	20	23	7500	0.9	200
SDCL0402H3N1 □ T01	3.1	8	500	10	13	19	20	22	7500	0.9	200
SDCL0402H3N2 □ T01	3.2	8	500	9	11	19	20	22	7500	0.9	180
SDCL0402H3N3 □ T01	3.3	8	500	10	13	19	20	23	7500	0.9	180
SDCL0402H3N4 □ T01	3.4	8	500	10	12	19	21	23	7500	1.0	180
SDCL0402H3N5 □ T01	3.5	8	500	10	13	19	21	24	7500	1.0	180
SDCL0402H3N6 □ T01	3.6	8	500	11	12	19	21	23	7500	1.0	180
SDCL0402H3N7 □ T01	3.7	8	500	10	12	19	21	23	7500	1.0	180
SDCL0402H3N8 □ T01	3.8	8	500	10	12	19	21	23	7500	1.0	180
SDCL0402H3N9 □ T01	3.9	8	500	9	11	19	20	22	7500	1.0	180
SDCL0402H4N0 □ T01	4.0	8	500	10	12	19	21	23	7500	1.1	180
SDCL0402H4N1 □ T01	4.1	8	500	11	12	19	21	24	7500	1.1	180
SDCL0402H4N2 □ T01	4.2	8	500	10	12	18	20	22	7500	1.1	180
SDCL0402H4N3 □ T01	4.3	8	500	10	13	19	21	24	7500	1.1	180
SDCL0402H4N7 □ T01	4.7	8	500	9	11	19	20	22	6500	1.2	160
SDCL0402H5N1 □ T01	5.1	8	500	10	12	18	19	22	6500	1.3	160
SDCL0402H5N6 □ T01	5.6	8	500	10	12	17	22	24	6000	1.5	140
SDCL0402H6N2 □ T01	6.2	8	500	10	11	18	20	23	5500	1.6	140
SDCL0402H6N8 □ T01	6.8	8	500	10	11	17	20	23	5500	1.8	140
SDCL0402H7N5 □ T01	7.5	8	500	10	13	17	22	24	4500	1.8	140
SDCL0402H8N2 □ T01	8.2	8	500	10	12	18	20	22	4500	2.0	140

规格特性 Specifications

SDCL0402H-T01 Series

型号 Part Number	电感量 Inductance	品质因子 Min. Quality Factor	测试频率 L, Q Test Freq.	Typical Q @ Freq. (GHz)					自谐振频率 Min. Self- resonant Frequency	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current
				0.5	0.8	1.8	2.0	2.4			
单位 Units	nH	-	MHz	-					MHz	Ω	mA
符号 Symbol	L	Q	Freq.	Q					S.R.F	DCR	I _r
SDCL0402H9N1 □ T01	9.1	8	500	10	13	17	21	23	4000	2.0	140
SDCL0402H10N □ T01	10	8	500	9	12	18	20	21	4000	2.2	140
SDCL0402H11N □ T01	11	8	500	9	12	18	19	20	4000	2.4	140
SDCL0402H12N □ T01	12	8	500	9	12	17	18	18	4000	2.4	140
SDCL0402H13N □ T01	13	7	500	8	12	17	18	18	3500	3.0	140
SDCL0402H15N □ T01	15	7	500	8	12	16	15	14	3000	3.0	140
SDCL0402H16N □ T01	16	7	500	8	11	13	12	11	2500	3.2	140
SDCL0402H18N □ T01	18	7	500	7.5	10	12	10	9	2500	3.2	140
SDCL0402H20N □ T01	20	6	500	7	9	11	9	7	2500	4.5	120
SDCL0402H22N □ T01	22	6	500	7	10	10	9	7	2300	5.0	120
SDCL0402H24N □ T01	24	6	500	8	11	10	9	6	2000	5.5	120
SDCL0402H27N □ T01	27	6	500	8	10	8	7	-	2000	5.5	120
SDCL0402H30N □ T01	30	6	500	7	9	7	-	-	1800	6.5	90
SDCL0402H33N □ T01	33	6	300	8	9	7	-	-	1800	6.5	90

※ □ : 请指定电感量精度。当 $L \leq 4.2\text{nH}$ 时, 选择 $B = \pm 0.1\text{nH}$, $C = \pm 0.2\text{nH}$ 或 $S = \pm 0.3\text{nH}$; 当 $L \geq 4.3\text{nH}$ 时, 选择 $H = \pm 3\%$, $J = \pm 5\%$ 。
※ □ : Please specify the inductance tolerance. For $L \leq 4.2\text{nH}$, choose $B = \pm 0.1\text{nH}$, $C = \pm 0.2\text{nH}$ or $S = \pm 0.3\text{nH}$; For $L \geq 4.3\text{nH}$, choose $H = \pm 3\%$, $J = \pm 5\%$.

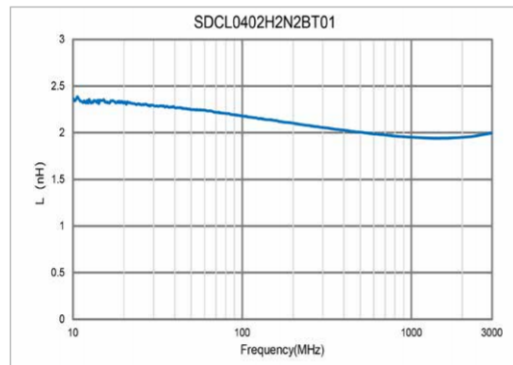
※: 请参阅“射频电感器的测量注意事项”。
※: Please refer to "Measurement Notice For RF Inductors".

电气特性

Typical Electrical Characteristics

SDCL0402H-T01 Series

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics

