叠层片式陶瓷电感—ASDCL1005-A01 系列
Multilayer Chip Ceramic Inductor – ASDCL1005-A01 Series

工作温度 Operating Temp

- -55℃ ~+125℃

特征 Features

- 迭层独石结构、高度可靠性
- 高自谐频率
- 良好的可焊性和耐焊性
- AEC-Q200D 认证
- Monolithic structure for high reliability
- High self-resonant frequency
- Excellent solderability and high heat resistance
- AEC-Q200D verified

用途 Applications

- 车载信息娱乐系统
- PKE
- 胎压监测
- Infotainment system
- Passive keyless entry
- Tire pressure monitoring system

产品型号 Product Identification

1	2	3	4	5	6	7	8	9	10
A	SDCL	1005	C	XXX	□	T	D	F	A01

1 品类 Feature Code

A	车载品 Automotive Electronics

2 分类 Type

SDCL	片式陶瓷体电感 Chip Ceramic Inductor

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

1005 [0402]	1.0×0.5

4 特性代号 Characteristics Code

Q	Characteristics Code

5 公称电感量 Nominal Inductance

例子 Example	感值 Nominal Value
3N9	3.9nH
10N	10nH
R12	120nH

6 电感公差 Inductance Tolerance

B	±0.1nH
C	±0.2nH
S	±0.3nH
H	±3%
J	±5%

7 包装 Packing

T	编带 Tape & Reel

8 内部代码 Internal Code

D	Internal Code

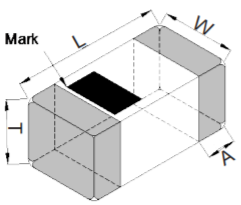
9 无有害物质产品 HFS Products

F	HFS Products

10 设计代码 Design Code

A01	Internal Code

外观尺寸 Shape and Dimensions



单位 Unit: mm [inch]

Type	L	W	T	A
ASDCL1005 [0402]	1.0±0.05 [.039±.006]	0.5±0.05 [.020±.006]	0.5±0.05 [.020±.006]	0.25±0.1 [.010±.004]

规格特性
Specifications

ASDCL1005-A01 TYPE

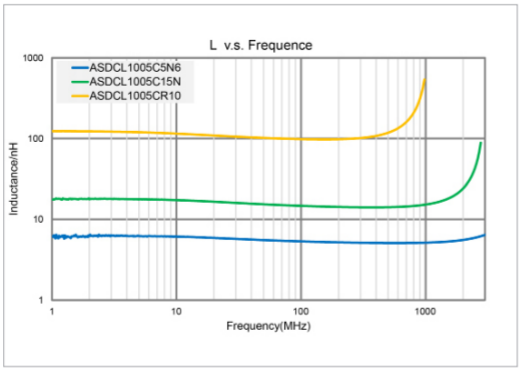
型号 Part Number	电感值 L	Q 值 Q	L,Q 测试频率 L, Q Test. Freq	Q (Typ.) Freq. (MHz)			自振频率 S.R.F	直流电阻 DC Resistance	额定电流 Rated Current	厚度 Thickness
				100	800	1000	800 (Min.)	1000 (Max.)	(Max.)	
单位 Units	nH	(Min.)	MHz	/			MHz	Ω	mA	(mm) [inch]
符号 Symbol	L	Q	/	/			S.R.F	DCR	Ir	T
ASDCL1005C0N6 □ TDFA01	0.6	4	100	6	35	41	10000	0.10	800	0.5±0.05 [.020±.002]
ASDCL1005C1N0 □ TDFA01	1.0	8	100	11	34	36	10000	0.10	400	
ASDCL1005C1N1 □ TDFA01	1.1	8	100	11	34	36	10000	0.10	400	
ASDCL1005C1N2 □ TDFA01	1.2	8	100	11	34	36	10000	0.10	400	
ASDCL1005C1N3 □ TDFA01	1.3	8	100	11	34	36	10000	0.10	400	
ASDCL1005C1N5 □ TDFA01	1.5	8	100	11	34	36	6000	0.10	300	
ASDCL1005C1N6 □ TDFA01	1.6	8	100	11	32	35	6000	0.10	300	
ASDCL1005C1N8 □ TDFA01	1.8	8	100	11	30	34	6000	0.10	300	
ASDCL1005C2N0 □ TDFA01	2.0	8	100	10	29	33	6000	0.20	300	
ASDCL1005C2N2 □ TDFA01	2.2	8	100	10	29	33	6000	0.20	300	
ASDCL1005C2N4 □ TDFA01	2.4	8	100	10	29	32	6000	0.20	300	
ASDCL1005C2N7 □ TDFA01	2.7	8	100	10	29	32	6000	0.20	300	
ASDCL1005C3N0 □ TDFA01	3.0	8	100	10	29	32	6000	0.20	300	
ASDCL1005C3N3 □ TDFA01	3.3	8	100	10	29	32	6000	0.20	300	
ASDCL1005C3N6 □ TDFA01	3.6	8	100	10	28	31	4000	0.20	300	
ASDCL1005C3N9 □ TDFA01	3.9	8	100	10	28	31	4000	0.20	300	
ASDCL1005C4N3 □ TDFA01	4.3	8	100	10	28	31	4000	0.20	300	
ASDCL1005C4N7 □ TDFA01	4.7	8	100	10	28	31	4000	0.20	300	
ASDCL1005C5N1 □ TDFA01	5.1	8	100	10	28	30	4000	0.30	300	
ASDCL1005C5N6 □ TDFA01	5.6	8	100	10	28	30	4000	0.30	300	
ASDCL1005C6N2 □ TDFA01	6.2	8	100	10	27	30	3900	0.30	300	
ASDCL1005C6N8 □ TDFA01	6.8	8	100	10	27	30	3900	0.30	300	
ASDCL1005C7N5 □ TDFA01	7.5	8	100	10	27	30	3700	0.40	300	
ASDCL1005C8N2 □ TDFA01	8.2	8	100	10	27	30	3600	0.40	300	
ASDCL1005C9N1 □ TDFA01	9.1	8	100	10	27	30	3400	0.40	300	
ASDCL1005C10N □ TDFA01	10	8	100	10	27	30	3200	0.40	300	
ASDCL1005C12N □ TDFA01	12	8	100	10	26	29	2700	0.50	300	
ASDCL1005C15N □ TDFA01	15	8	100	10	26	28	2300	0.50	300	
ASDCL1005C18N □ TDFA01	18	8	100	10	25	27	2100	0.60	300	
ASDCL1005C20N □ TDFA01	20	8	100	10	25	26	2000	0.60	300	
ASDCL1005C22N □ TDFA01	22	8	100	10	25	25	1900	0.60	300	
ASDCL1005C27N □ TDFA01	27	8	100	10	25	23	1600	0.70	300	
ASDCL1005C33N □ TDFA01	33	8	100	10	22	22	1300	0.80	200	
ASDCL1005C39N □ TDFA01	39	8	100	10	22	19	1200	1.00	200	
ASDCL1005C43N □ TDFA01	43	8	100	10	21	16	1100	1.10	200	
ASDCL1005C47N □ TDFA01	47	8	100	10	21	16	1000	1.10	200	
ASDCL1005C56N □ TDFA01	56	8	100	10	18	13	750	1.20	200	
ASDCL1005C68N □ TDFA01	68	8	100	10	18	9	750	1.40	180	
ASDCL1005C82N □ TDFA01	82	8	100	10	13	-	750	2.40	150	
ASDCL1005CR10 □ TDFA01	100	8	100	10	12	-	700	2.60	150	
ASDCL1005CR12 □ TDFA01	120	8	100	10	-	-	600	2.80	150	
ASDCL1005CR15 □ TDFA01	150	8	100	10	-	-	550	3.20	100	
ASDCL1005CR18 □ TDFA01	180	8	100	10	-	-	500	3.70	100	

※ □ : 请具体说明电感值公差。对于 L≤6.2nH, 选择 B=±0.1nH, C=±0.2nH 或者 S=±0.3nH; 对于 L>6.2nH, 选择 H=±3%, J=±5% 或者 K=±10%。
(1) 工作和存储温度范围 (单个, 无需封装): -55℃ ~ +125℃。
(2) 储存温度范围 (包装条件): -10℃ ~+40℃和 RH 70% (Max.)
※ □ : 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%.
(1)Operating and storage temperature range (individual chip without packing): -55℃ ~ +125℃ .
(2)Storage temperature range (packaging conditions): -10℃ ~+40℃ and RH 70% (Max.)

电气特性

Typical Electrical Characteristics

Inductance vs. Frequency Characteristics
ASDCL1005-A01 TYPE



Q vs. Frequency Characteristics
ASDCL1005-A01 TYPE