

叠层片式陶瓷电感—ASDCL1608-A01 系列

Multilayer Chip Ceramic Inductor – ASDCL1608-A01 Series



工作温度

Operating Temp

- ◆ -55°C ~+125°C

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
- ◆ 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

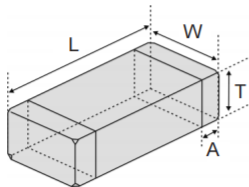
Product Identification

1	2	3	4	5	6	7	8	9	10
A	SDCL	1608	C	XXX	□	T	D	F	A01

1 品类 Feature Code	2 分类 Type	3 外形尺寸 (L×W) (mm) External Dimensions (L×W) (mm)
A 车载品 Automotive Electronics	SDCL 片式陶瓷电感 Chip Ceramic Inductor	1608[0603] 1.6×0.8
4 特性代号 Characteristics Code	5 公称电感量 Nominal Inductance	6 电感公差 Inductance Tolerance
Q 特性代号 Characteristics Code	例子 Example 感值 Nominal Value	B ±0.1nH
7 包装 Packing	3N9 3.9nH	C ±0.2nH
T 编带 Tape Carrier Package	10N 10nH	S ±0.3nH
8 内部代码 Internal Code	R12 120nH	H ±3%
D 内部代码 Internal Code	9 无有害物质产品 HFS Products	J ±5%
10 设计代码 Design Code	F HFS Products	A01 设计代码 Internal Code

外观尺寸

Shape and Dimensions



单位 Unit: mm [inch]

Type	L	W	T	A
ASDCL1608 [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]
	1.65±0.15 [.065±.006]			

规格特性 Specifications

ASDCL1608-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				
单位 Units	nH	(Min.)	MHz	/			MHz	Ω	mA	(mm) [inch]
符号 Symbol	L	Q	/	/			S.R.F	DCR	Ir	T
ASDCL1608C1N0 □ TDFA01	1.0	8	100	13	70	80	10000	0.05	500	0.8±0.15 [.03±0.006]
ASDCL1608C1N2 □ TDFA01	1.2	8	100	13	60	70	10000	0.05	500	
ASDCL1608C1N5 □ TDFA01	1.5	8	100	13	47	68	6000	0.10	500	
ASDCL1608C1N8 □ TDFA01	1.8	8	100	13	45	61	6000	0.10	500	
ASDCL1608C2N2 □ TDFA01	2.2	8	100	13	45	60	6000	0.10	500	
ASDCL1608C2N7 □ TDFA01	2.7	10	100	13	44	55	6000	0.12	500	
ASDCL1608C3N3 □ TDFA01	3.3	10	100	13	43	50	6000	0.15	500	
ASDCL1608C3N9 □ TDFA01	3.9	10	100	13	43	50	6000	0.16	500	
ASDCL1608C4N7 □ TDFA01	4.7	10	100	13	43	50	6000	0.20	500	
ASDCL1608C5N6 □ TDFA01	5.6	10	100	14	42	48	5000	0.25	500	
ASDCL1608C6N8 □ TDFA01	6.8	10	100	14	43	50	5000	0.30	500	
ASDCL1608C8N2 □ TDFA01	8.2	10	100	14	43	48	4500	0.35	500	
ASDCL1608C10N □ TDFA01	10	12	100	15	45	50	3500	0.40	300	
ASDCL1608C12N □ TDFA01	12	12	100	18	48	50	3000	0.45	300	
ASDCL1608C15N □ TDFA01	15	12	100	18	48	50	2300	0.50	300	
ASDCL1608C18N □ TDFA01	18	12	100	16	48	51	2200	0.55	300	
ASDCL1608C22N □ TDFA01	22	12	100	16	45	48	2000	0.60	300	
ASDCL1608C27N □ TDFA01	27	12	100	16	45	45	1700	0.65	300	
ASDCL1608C33N □ TDFA01	33	12	100	16	45	41	1500	0.70	300	
ASDCL1608C39N □ TDFA01	39	12	100	17	40	48	1400	0.70	300	
ASDCL1608C47N □ TDFA01	47	12	100	17	35	35	1200	0.70	300	
ASDCL1608C56N □ TDFA01	56	12	100	17	35	30	1100	0.75	300	
ASDCL1608C68N □ TDFA01	68	12	100	17	30	20	900	0.85	300	
ASDCL1608C82N □ TDFA01	82	8	100	15	22	-	800	1.00	300	
ASDCL1608CR10 □ TDFA01	100	8	100	15	16	-	700	1.20	300	
ASDCL1608CR12 □ TDFA01*	120	8	50	15	-	-	600	1.40	200	
ASDCL1608CR15 □ TDFA01*	150	8	50	15	-	-	500	1.60	200	
ASDCL1608CR18 □ TDFA01*	180	8	50	15	-	-	400	1.90	200	
ASDCL1608CR22 □ TDFA01*	220	8	50	15	-	-	350	2.40	200	
ASDCL1608CR27 □ TDFA01*	270	8	50	16	-	-	350	2.60	150	
ASDCL1608CR33 □ TDFA01*	330	8	50	16	-	-	350	2.80	150	
ASDCL1608CR39 □ TDFA01*	390	8	50	16	-	-	300	3.20	150	
ASDCL1608CR43 □ TDFA01*	430	8	50	16	-	-	280	3.40	150	
ASDCL1608CR47 □ TDFA01*	470	8	50	15	-	-	250	3.60	150	

※ □ : 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%。

※*: 长度: 1.65±0.15mm, 其余是 1.60±0.15mm

(1) 工作和存储温度范围 (单个, 无需封装): -55°C ~ +125°C

(2) 储存温度范围 (包装条件): -10°C ~ +40°C 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%.

※*: The length: 1.65±0.15mm, for others: 1.60±0.15mm.

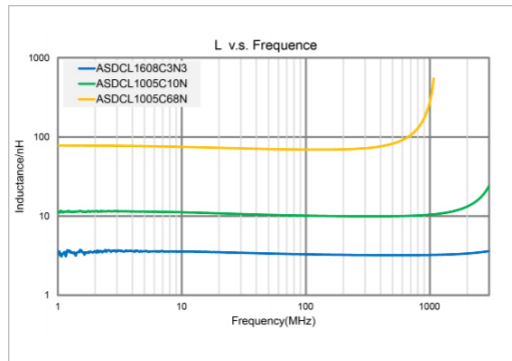
(1) Operating and storage temperature range (individual chip without packing): -55°C ~ +125°C.

(2) Storage temperature range (packaging conditions): -10°C ~ +40°C and RH 70% (Max.)

电气特性

Typical Electrical Characteristics

Inductance vs. Frequency Characteristics ASDCL1608-A01 TYPE



Q vs. Frequency Characteristics ASDCL1608-A01 TYPE

