

特性及应用

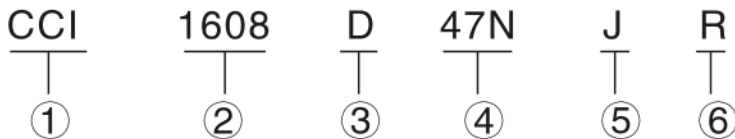
FEATURES/APPLICATIONS

- 使用载带包装运用于SMT。
- 叠层独石结构,高度可靠性。
- 高自谐频率。
- 体积小。
- 适用于回流焊SMT工艺。
- 无铅产品,符合RoHS指令。
- 广泛应用于移动电话,寻呼机,家用电器,计算机,数字无绳电话,对讲机等。

- Carrier tape packing use for SMT.
- Monolithic structure for high reliability.
- High self-resonant frequency.
- Compact size inductor possible.
- Suitable for reflow SMT craft soldering.
- Lead free products RoHS compliant.
- Widely use in high frequency applications including Cellular phone/Pager/Home electric/Computer/Digital wireless phone/ Intercom etc.

产品标示

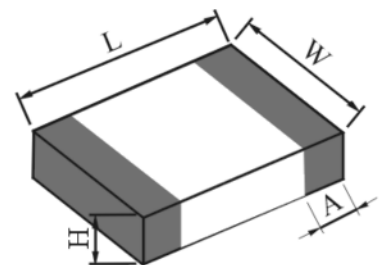
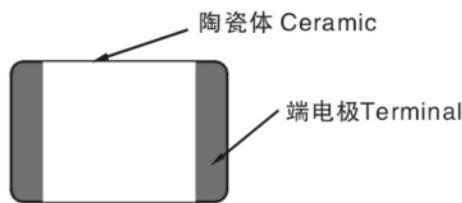
PRODUCT INDICATION



- ① 产品类型:CCI型(陶瓷体)。 ① Product type: CCI type (Ceramic).
- ② 外观尺寸:16表示长1.6mm, 08表示宽0.8mm。 ② External dimensions: 16 for Length 1.6mm, 08 for Width 0.8mm.
- ③ 材料代号:C,D,M。 ③ Material code: C,D,M.
- ④ 电气特性表示: 47N表示47nH。 ④ Electrical code: 47N for 47nH.
- ⑤ 允许公差:S表示±0.3nH, J表示±5%, K表示±10%。 ⑤ Tolerance: S for ±0.3nH; J for ±5%; K for ±10%.
- ⑥ 包装方式: R表示载带盘装; B表示散装。 ⑥ Packing style: R for carrier tape reel; B for in bulk.

外形尺寸(单位:mm)

SHAPE AND DIMENSIONS(unit:mm)



型号TYPE	L(长)	W(宽)	H(高)	A(端电极)
CCI0603(0201)	0.6±0.1	0.3±0.1	0.3±0.1	0.15±0.05
CCI1005(0402)	1.0±0.15	0.5±0.15	0.5±0.15	0.25±0.1
CCI1608(0603)	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
CCI2012(0805)	2.0±0.2	1.25±0.2	1.05±0.2	0.5±0.3

电气性能 Electrical Characteristics CCI0603(0201) Series

Part NO. 产品编号	Inductance 电感量(nH)	Q值 Min	Q Typ. Freq(MHz)						Test Freq L.Q测试频率 (MHz)	SRF 自谐频率 (MHz)(Min)	DC Resistance 直流电阻 (Ω)Max	Rated Current 额定电流 (mA)Max
			100	300	500	800	1000	1800				
CCI0603C-1N0	1.0	3	3.9	6.8	8.8	11.4	12.7	16.6	100	>6000	0.15	170
CCI0603C-1N2	1.2	3	4.0	6.9	9.2	11.9	13.3	17.8	100	>6000	0.15	170
CCI0603C-1N5	1.5	3	4.1	6.9	9.2	11.8	13.3	17.8	100	>6000	0.15	170
CCI0603C-1N8	1.8	3	4.1	7.0	9.3	12.0	13.4	18.1	100	>6000	0.20	170
CCI0603C-2N2	2.2	3	4.2	7.1	9.2	11.8	13.2	18.5	100	>6000	0.20	150
CCI0603C-2N7	2.7	3	3.9	6.4	8.1	10.3	11.5	16.2	100	>6000	0.25	150
CCI0603C-3N3	3.3	3	4.3	7.1	9.0	11.5	12.9	18.2	100	>6000	0.30	150
CCI0603C-3N9	3.9	3	5.5	7.6	9.7	12.1	13.4	19.3	100	>6000	0.35	150
CCI0603C-4N7	4.7	3	5.6	7.5	9.5	12.0	13.4	19.2	100	>6000	0.40	150
CCI0603C-5N6	5.6	3.5	4.7	7.7	9.9	12.6	14.1	20.3	100	>6000	0.45	150
CCI0603C-6N8	6.8	3.5	4.7	7.6	9.8	12.5	14.0	20.1	100	>6000	0.50	150
CCI0603C-8N2	8.2	3.5	4.4	6.8	8.5	10.7	11.8	16.4	100	6000	0.60	150
CCI0603C-10N	10	3.5	5.0	8.1	10.4	13.0	14.6	20.4	100	5400	0.70	150
CCI0603C-12N	12	4	5.0	8.4	10.8	13.7	15.4	21.5	100	5200	0.85	100
CCI0603C-15N	15	4	4.8	8.1	10.3	13.2	14.8	19.7	100	4700	1.00	100
CCI0603C-18N	18	4	4.8	8.0	10.2	13.0	14.6	19.1	100	4300	1.30	100
CCI0603C-22N	22	3.5	4.7	8.0	10.4	13.2	14.8	20.6	100	4000	2.00	100

※客户可根据实际需求选择 Requirements of customers are welcomed : S=±0.3nH J=±5% K=±10%.

电气性能 Electrical Characteristics CCI1005(0402) Series

Part NO. 产品编号	Inductance 电感量(nH)	Q值 Min	Q Typ. Freq(MHz)						Test Freq L.Q测试频率 (MHz)	SRF 自谐频率 (MHz)(Min)	DC Resistance 直流电阻 (Ω)Max	Rated Current 额定电流 (mA)Max
			100	300	500	800	1000	1800				
CCI1005C-1N0	1.0	8	11	21	25	33	35	52	100	6000	0.10	400
CCI1005C-1N2	1.2	8	11	21	25	33	35	52	100	6000	0.10	400
CCI1005C-1N5	1.5	8	11	21	25	33	35	52	100	6000	0.13	400
CCI1005C-1N8	1.8	8	10	18	21	29	32	49	100	6000	0.14	400
CCI1005C-2N2	2.2	8	10	17	21	28	31	47	100	6000	0.16	400
CCI1005C-2N7	2.7	8	10	17	21	28	31	46	100	5500	0.17	400
CCI1005C-3N3	3.3	8	10	17	21	28	31	46	100	5500	0.19	400
CCI1005C-3N9	3.9	8	10	17	21	28	31	45	100	5200	0.22	400
CCI1005C-4N7	4.7	8	10	17	21	28	31	45	100	4800	0.24	400
CCI1005C-5N6	5.6	8	10	17	21	25	29	44	100	4600	0.27	400
CCI1005C-6N8	6.8	8	10	18	21	26	30	44	100	4000	0.32	300
CCI1005C-8N2	8.2	8	10	18	21	26	30	43	100	3600	0.37	300
CCI1005C-10N	10	8	10	18	21	26	30	42	100	3200	0.42	300
CCI1005C-12N	12	8	10	17	21	24	27	33	100	2800	0.50	300
CCI1005C-15N	15	8	10	17	20	23	26	27	100	2500	0.55	300
CCI1005C-18N	18	8	10	17	20	21	23	9	100	2200	0.65	300
CCI1005C-22N	22	8	10	18	21	22	23	—	100	2000	0.80	200
CCI1005C-27N	27	8	10	18	20	21	22	—	100	1600	0.90	200
CCI1005C-33N	33	8	10	18	20	21	21	—	100	1300	1.00	200
CCI1005C-39N	39	8	10	18	19	20	17	—	100	1200	1.20	150
CCI1005C-47N	47	8	10	18	19	18	—	—	100	1000	1.30	150
CCI1005C-56N	56	8	10	18	19	13	—	—	100	900	1.60	150
CCI1005C-68N	68	8	10	18	19	13	—	—	100	900	2.10	150
CCI1005C-82N	82	8	10	18	19	13	—	—	100	900	2.40	150
CCI1005C-R10N	100	8	10	18	19	13	—	—	100	900	2.60	150

※客户可根据实际需求选择 Requirements of customers are welcomed : S=±0.3nH J=±5% K=±10%.

电气性能 Electrical Characteristics CCI1608(0603) Series

Part NO. 产品编号	Inductance 电感量(nH)	Q值 Min	Q Typ. Freq(MHz)						Test Freq L.Q测试频率 (MHz)	SRF 自谐频率 (MHz)(Min)	DC Resistance 直流电阻 (Ω)Max	Rated Current 额定电流 (mA)Max
			100	300	500	800	1000	1800				
CCI1608C-1N5	1.5	8	12	22	37	38	68	85	100	6000	0.10	500
CCI1608C-1N8	1.8	8	12	21	33	35	61	85	100	6000	0.12	500
CCI1608C-2N2	2.2	8	12	26	40	39	60	85	100	6000	0.20	500
CCI1608C-2N7	2.7	8	12	23	27	37	47	85	100	6000	0.20	500
CCI1608C-3N3	3.3	8	12	23	27	36	47	77	100	6000	0.20	500
CCI1608C-3N9	3.9	8	12	25	28	38	47	73	100	6000	0.20	500
CCI1608C-4N7	4.7	8	12	26	30	38	49	81	100	6000	0.20	500
CCI1608C-5N6	5.6	8	12	26	29	35	34	28	100	5500	0.30	500
CCI1608C-6N8	6.8	8	12	23	27	35	40	63	100	5300	0.30	500
CCI1608C-8N2	8.2	8	12	22	26	33	39	50	100	5100	0.30	500
CCI1608C-10N	10	8	14	25	31	38	45	64	100	4800	0.50	300
CCI1608C-12N	12	8	14	24	28	35	39	50	100	4500	0.50	300
CCI1608C-15N	15	8	14	22	27	34	40	45	100	4200	0.60	300
CCI1608C-18N	18	8	14	24	28	35	38	37	100	3900	0.60	300
CCI1608C-22N	22	8	15	27	32	38	43	36	100	3600	0.60	300
CCI1608C-27N	27	8	15	26	29	36	44	32	100	3300	0.80	300
CCI1608C-33N	33	8	15	26	30	35	34	12	100	3000	0.80	300
CCI1608C-39N	39	8	15	22	25	28	28	6	100	2500	0.80	300
CCI1608C-47N	47	8	15	25	29	30	25	—	100	2400	1.00	300
CCI1608C-56N	56	8	15	28	31	31	25	—	100	2200	1.00	300
CCI1608C-68N	68	8	15	22	25	22	15	—	100	1000	1.00	300
CCI1608C-82N	82	8	15	23	24	22	—	—	100	800	1.00	300
CCI1608C-R10	100	8	15	25	27	16	—	—	100	700	1.00	300
CCI1608C-R12	120	8	15	24	23	—	—	—	100	600	1.20	300
CCI1608C-R15	150	8	15	19	16	—	—	—	100	500	1.40	300
CCI1608C-R18	180	8	15	18	12	—	—	—	100	400	1.60	300
CCI1608C-R22	220	8	15	16	—	—	—	—	100	350	1.80	300

※客户可根据实际需求选择 Requirements of customers are welcomed : S=±0.3nH J=±5% K=±10%.

电气性能 Electrical Characteristics CCI2012(0805) Series

Part NO. 产品编号	Inductance 电感量(nH)	Q值 Min	Q Typ. Freq(MHz)						Test Freq L.Q测试频率 (MHz)	SRF 自谐频率 (MHz)(Min)	DC Resistance 直流电阻 (Ω)Max	Rated Current 额定电流 (mA)Max
			100	300	500	800	1000	1800				
CCI2012C-1N5	1.5	10	23	46	55	85	85	100	100	6000	0.10	600
CCI2012C-1N8	1.8	10	24	46	55	85	85	100	100	6000	0.10	600
CCI2012C-2N2	2.2	10	25	46	56	85	85	100	100	6000	0.10	600
CCI2012C-2N7	2.7	10	25	42	45	76	76	100	100	6000	0.10	600
CCI2012C-3N3	3.3	10	28	48	52	85	85	100	100	6000	0.13	600
CCI2012C-3N9	3.9	10	28	49	55	85	85	100	100	5400	0.15	600
CCI2012C-4N7	4.7	10	28	48	53	85	85	100	100	4500	0.20	400
CCI2012C-5N6	5.6	10	30	44	45	78	78	95	100	4000	0.23	400
CCI2012C-6N8	6.8	10	30	40	45	69	69	96	100	3650	0.25	400
CCI2012C-8N2	8.2	10	28	42	45	69	69	96	100	3000	0.28	400
CCI2012C-10N	10	10	28	43	45	71	71	72	100	2500	0.30	300
CCI2012C-12N	12	10	28	43	45	50	50	52	100	2450	0.35	300
CCI2012C-15N	15	10	30	43	43	56	56	56	100	2000	0.40	300
CCI2012C-18N	18	10	26	40	42	59	59	28	100	1750	0.45	300
CCI2012C-22N	22	13	31	45	45	59	59	28	100	1700	0.50	300
CCI2012C-27N	27	15	31	45	45	54	54	14	100	1550	0.55	300

※客户可根据实际需求选择 Requirements of customers are welcomed: S=±0.3nH J=±5% K=±10%.

电气性能 Electrical Characteristics TYPE:CCI2012(0805)

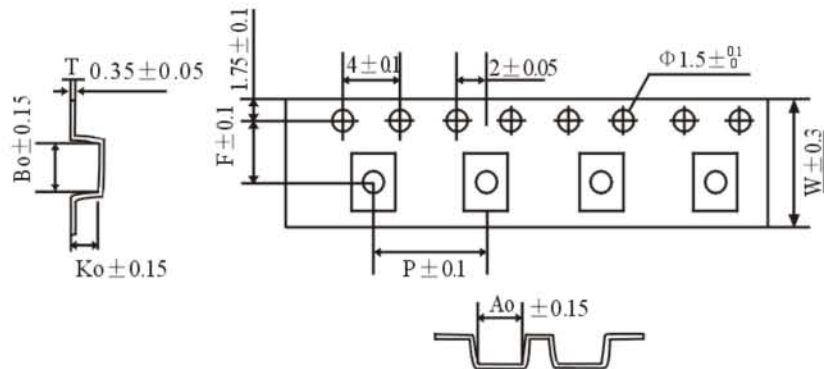
Part NO. 产品编号	Inductance 电感量(nH)	Q值 Min	Q Typ. Freq(MHz)						Test Freq L.Q测试频率 (MHz)	SRF 自谐频率 (MHz)(Min)	DC Resistance 直流电阻 (Ω)Max	Rated Current 额定电流 (mA)Max
			100	300	500	800	1000	1800				
CCI2012C-39N	39	15	17	31	42	31	20	—	100	1300	0.65	300
CCI2012C-47N	47	15	17	24	33	31	29	—	100	1200	0.70	300
CCI2012C-56N	56	15	17	24	45	35	25	—	100	1150	0.75	300
CCI2012C-68N	68	15	17	28	37	29	—	—	100	1000	0.80	300
CCI2012C-82N	82	15	17	29	30	27	—	—	100	850	0.90	300
CCI2012C-R10	100	15	17	27	36	—	—	—	100	600	1.00	300
CCI2012C-R12	120	15	17	27	34	—	—	—	50	500	1.50	300
CCI2012C-R15	150	13	17	27	26	—	—	—	50	500	1.50	300
CCI2012C-R18	180	13	17	25	20	—	—	—	50	400	2.10	300
CCI2012C-R22	220	12	17	22	—	—	—	—	50	350	2.10	300
CCI2012C-R27	270	12	17	20	—	—	—	—	50	300	3.00	200
CCI2012C-R33	330	12	17	—	—	—	—	—	50	250	3.00	200
CCI2012C-R39	390	10	17	—	—	—	—	—	50	250	3.50	200
CCI2012C-R47	470	10	17	—	—	—	—	—	50	200	3.50	200

※ 客户可根据实际需求选择 Requirements of customers are welcomed: S=±0.3nH J=±5% K=±10%.

■ 记事 Notes:

- 电感值测试仪：HP4286A/CH1062A或同等LCR Meter。
Inductance instrument: HP4286A/CH1062A or LCR Meter equivalent.
- 电感测试条件：100KHz/1KHz。
Inductance testing condition: 100KHz/1KHz.
- 电阻测试仪：TH2512B或同等的DCR测试设备。
DCR instrument: TH2512B or DCR test equipment equivalent.
- 额定电流测试：VR7210&VR113H。
Rated Current test: VR7210&VR113H.
- 额定电流定义：电感下降25%或温度上升40℃时取其最小值作为额定电流。
Rated Current definition: Inductance drop by 25% or temperature rise by 40℃, the lesser of the minimum as the rated current.
- 贮藏温度：-25℃~80℃；相对湿度：RH65%~85%。
Temperature storage range: -25℃~80℃； the relative humidity: RH65%~85%.

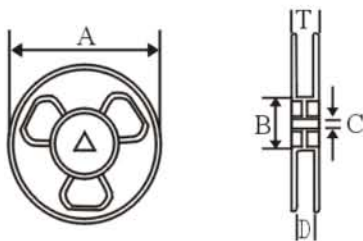
编带尺寸 Dimensions of tape(unit:mm)



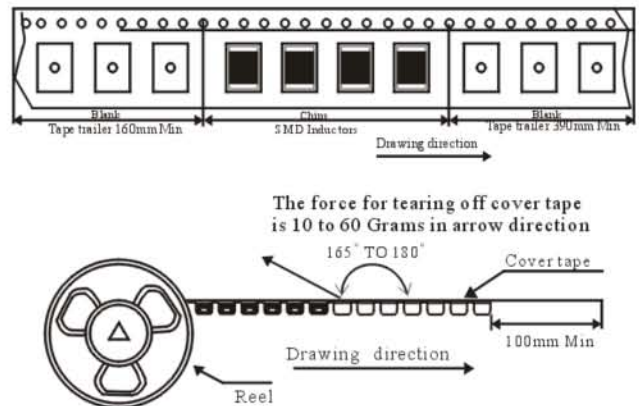
型号Type	尺寸Dimensions						带轮Reel	Quantities(数量)
	Ao	Bo	W	P	F	Ko		PCS/reel(每卷)
CCI0603	0.45	0.75	8.00	2.00	3.50	0.60	178*8.0	15000
CCI1005	0.65	1.15	8.00	2.00	3.50	0.80	178*8.0	10000
CCI1608	1.00	1.80	8.00	4.00	3.50	1.10	178*8.0	4000
CCI2012	1.50	2.30	8.00	4.00	3.50	1.30	178*8.0	4000

※超出以上规格的特殊要求也可以满足。Special inquiries besides the above common used types can be meet.

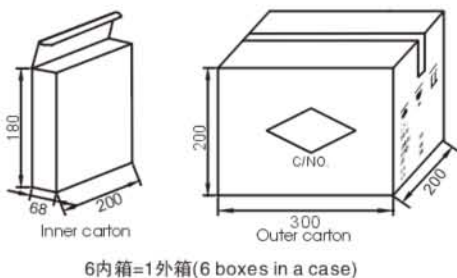
带轮尺寸 Dimensions of Reel (unit: mm) 编带简图及拉伸方向 Taping figures and drawing direction



Type	A	B	C	D	T
8.0mm	178	60	13.5	8.4	11
12.0mm	178	60	13.5	12.4	15



包装箱盒尺寸 Box and case dimensions (unit: mm) 包装数量 Packaging quantities (unit:PCS)



型号Type	Quantities(数量)	Quantities(数量)
	Inner carton 内箱	Outer carton 外箱
CCI0603	5/75000	6/450K
CCI1005	5/50000	6/300K
CCI1608	5/20000	6/120K
CCI2012	5/20000	6/120K