

承认书
Specification

客户名称:

Customer Name: _____
(请填写贵司全名)

规格书编号:

Spification NO : _____ Spec-CMLC Series Rev.01

客户品名:

Product P/N : _____
(请填写贵司物料品名)

华拓品名:

Manufacturer's P/N : _____
(请填写欲承认的华拓品名)

变更履历:

Revised record:

Rev.	Date	Changed Contents	Change reasons	Approved by
01	2013-12-10	New released		Buck

客户承认栏 (请签名并写明日期后回传)

广州华拓电子科技有限公司

Customer's Approval

Confirmed	Checked	Prepared
Buck	Dana	Amy

Type: CMLC1005,1608,2012

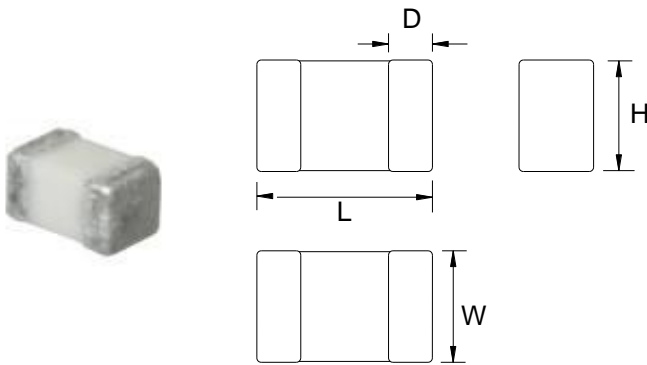
Feature/特长

- Monolithic inorganic material construction(Ceramic)
- Excellent solderability and heat resistance.
- High reliability.
- RoHS compliant.
- 无机材料构造(陶瓷)。
- 良好的可焊性、耐热性。
- 高可靠性。
- RoHS指定对应。

Application/用途

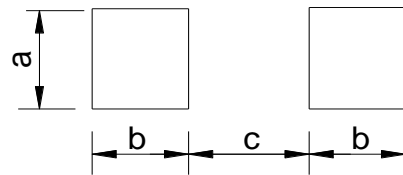
For high frequency applications such as mobile phones, high frequency modules (PA, VCO, FEM etc.), Bluetooth, W-LAN, UWB and tuners. 携帶電話、高周波数制品(PA, VCO, FEM etc.), Bluetooth, W-LAN, UWB 及无线电收音机適用。

Dimensions/外形图



Recommended Land Pattern

推荐贴装尺寸



Unit: mm

Type	L	W	H	D	a	b	c	Packaging (pcs/reel)
CMLC1005	1.0±0.05	0.5±0.05	0.5±0.05	0.25±0.1	0.5	0.5	0.4	10000
CMLC1608	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2	0.8	1.0	0.6	4000
CMLC2012	2.0±0.2	1.25±0.2	0.85±0.2	0.5±0.3	1.0	1.0	1.0	4000
CMLC2012	2.0±0.2	1.25±0.2	1.25±0.2	0.5±0.3	1.0	1.0	1.0	2000

Dimensions without tolerance are typical./无公差尺寸为参考值。

Product Identification/品名注释

C M L C 1005 - 22N J C
(1) (2) (3) (4) (5) (6) (7) (8)

- (1) SMD/表面安装制品
- (2) Multilayer chip /叠层片式
- (3) Inductors/电感
- (4) Ceramic/陶瓷

(5) Dimension symbol/尺寸表示:

1005=1.0 X 0.5 mm (L X W)

(6) Inductance value/电感值:

1N5=1.5nH, 22N= 22nH,R10=100nH

(7) Tolerance/公差: S=±0.3nH ,J=±5%

(8) Packing Style/包装形态:C=Carrier taping/载带包装

CMLC1005 Electrical Characteristics

Part Number	Inductance (nH)	Inductance tolerance	Q min.	Test frequency L,Q(MHz)	DCR max. (mΩ)	Rated current (mA)	SRF(MHz)	
							typ.	min.
CMLC1005-1N0SC	1.0	S	8	100	90	300	>13000	10000
CMLC1005-1N2SC	1.2	S	8	100	90	300	>13000	10000
CMLC1005-1N5SC	1.5	S	8	100	120	300	>13000	6000
CMLC1005-1N8SC	1.8	S	8	100	120	300	11000	6000
CMLC1005-2N2SC	2.2	S	8	100	140	300	10000	6000
CMLC1005-2N7SC	2.7	S	8	100	140	300	9000	6000
CMLC1005-3N3SC	3.3	S	8	100	160	300	8000	6000
CMLC1005-3N9SC	3.9	S	8	100	190	300	7000	4000
CMLC1005-4N7SC	4.7	S	8	100	210	300	6000	4000
CMLC1005-5N6SC	5.6	S	8	100	230	300	5700	4000
CMLC1005-6N8JC	6.8	J	8	100	250	300	5500	3900
CMLC1005-8N2JC	8.2	J	8	100	280	300	4900	3600
CMLC1005-10NJC	10	J	8	100	310	300	4300	3200
CMLC1005-12NJC	12	J	8	100	400	300	3900	2700
CMLC1005-15NJC	15	J	8	100	500	300	3500	2300
CMLC1005-18NJC	18	J	8	100	550	300	3100	2100
CMLC1005-22NJC	22	J	8	100	600	300	2800	1900
CMLC1005-27NJC	27	J	8	100	700	300	2300	1600
CMLC1005-33NJC	33	J	8	100	800	300	1900	1300
CMLC1005-39NJC	39	J	8	100	1000	200	1700	1200
CMLC1005-47NJC	47	J	8	100	1200	200	1500	1000
CMLC1005-56NJC	56	J	8	100	1300	200	1300	750
CMLC1005-68NJC	68	J	8	100	2000	180	1200	750
CMLC1005-82NJC	82	J	8	100	2200	150	1100	600
CMLC1005-R10JC	100	J	8	100	2500	150	1000	600
CMLC1005-R12JC	120	J	8	100	2700	150	800	600

• Tolerance: S=±0.3nH ,J=±5%

• Test equipments:

Inductance Q : HP4291A+16193A, or equivalent; SRF: HP8720C, or equivalent; DCR: YOKOGAWA TYPE7561, or equivalent

• Rated current : is the current at which the temperature rise is 20°C.

CMLC1608 Electrical Characteristics

Part Number	Inductance (nH)	Inductance tolerance	Q min.	Test frequency L,Q(MHz)	DCR max. (mΩ)	Rated current (A)	SRF(MHz)	
							typ.	min.
CMLC1608-1N0SC	1.0	S	8	100	50	300	>13000	10000
CMLC1608-1N2SC	1.2	S	8	100	50	300	>13000	10000
CMLC1608-1N5SC	1.5	S	8	100	100	300	>13000	6000
CMLC1608-1N8SC	1.8	S	8	100	100	300	>13000	6000
CMLC1608-2N2SC	2.2	S	8	100	100	300	12000	6000
CMLC1608-2N7SC	2.7	S	10	100	100	300	11000	6000
CMLC1608-3N3SC	3.3	S	10	100	120	300	9000	6000
CMLC1608-3N9SC	3.9	S	10	100	140	300	8000	6000
CMLC1608-4N7SC	4.7	S	10	100	160	300	6500	4000
CMLC1608-5N6SC	5.6	S	10	100	180	300	5800	4000
CMLC1608-6N8SC	6.8	S	10	100	220	300	5600	4000
CMLC1608-8N2JC	8.2	J	10	100	240	300	5200	3500
CMLC1608-10NJC	10	J	12	100	260	300	4600	3400
CMLC1608-12NJC	12	J	12	100	280	300	4000	2600
CMLC1608-15NJC	15	J	12	100	320	300	3400	2300
CMLC1608-18NJC	18	J	12	100	350	300	3000	2000
CMLC1608-22NJC	22	J	12	100	400	300	2900	1600
CMLC1608-27NJC	27	J	12	100	450	300	2200	1400
CMLC1608-33NJC	33	J	12	100	550	300	1800	1200
CMLC1608-39NJC	39	J	12	100	600	300	1600	1100
CMLC1608-47NJC	47	J	12	100	700	300	1600	900
CMLC1608-56NJC	56	J	12	100	750	300	1400	900
CMLC1608-68NJC	68	J	12	100	850	300	1200	700
CMLC1608-82NJC	82	J	12	100	950	300	1100	600
CMLC1608-R10JC	100	J	12	100	1000	300	1000	600
CMLC1608-R12JC	120	J	8	100	1200	300	800	500
CMLC1608-R15JC	150	J	8	100	1200	300	800	500
CMLC1608-R18JC	180	J	8	100	1300	300	700	400
CMLC1608-R22JC	220	J	8	100	1500	300	600	400
CMLC1608-R27JC	270	J	8	100	1900	150	550	300

• Tolerance: S=±0.3nH ,J=±5%

• Test equipments:

Inductance Q : HP4291A+16193A, or equivalent; SRF: HP8720C, or equivalent; DCR: YOKOGAWA TYPE7561, or equivalent

• Rated current : is the current at which the temperature rise is 20°C.

CMLC2012/CMLC2012A Electrical Characteristics

Part Number	Inductance (nH)	Inductance tolerance	Q min.	Test frequency L,Q(MHz)	DCR max. (mΩ)	Rated current (A)	SRF(MHz)		Thickness
							typ.	min.	
CMLC2012-1N5SC	1.5	S	10	100	0.10	0.30	>6000	4000	0.85 ± 0.2
CMLC2012-1N8SC	1.8	S	10	100	0.10	0.30	>6000	4000	0.85 ± 0.2
CMLC2012-2N2SC	2.2	S	10	100	0.10	0.30	>6000	4000	0.85 ± 0.2
CMLC2012-2N7SC	2.7	S	12	100	0.10	0.30	>6000	4000	0.85 ± 0.2
CMLC2012-3N3SC	3.3	S	12	100	0.13	0.30	>6000	4000	0.85 ± 0.2
CMLC2012-3N9SC	3.9	S	12	100	0.15	0.30	>6000	4000	0.85 ± 0.2
CMLC2012-4N7SC	4.7	S	12	100	0.20	0.30	>6000	3500	0.85 ± 0.2
CMLC2012-5N6SC	5.6	S	15	100	0.23	0.30	5400	3200	0.85 ± 0.2
CMLC2012-6N8JC	6.8	J	15	100	0.25	0.30	4200	2800	0.85 ± 0.2
CMLC2012-8N2JC	8.2	J	15	100	0.28	0.30	3700	2400	0.85 ± 0.2
CMLC2012-10NJC	10	J	15	100	0.30	0.30	3100	2100	0.85 ± 0.2
CMLC2012-12NJC	12	J	15	100	0.35	0.30	3000	1900	0.85 ± 0.2
CMLC2012-15NJC	15	J	15	100	0.40	0.30	2600	1600	0.85 ± 0.2
CMLC2012-18NJC	18	J	15	100	0.45	0.30	2300	1500	0.85 ± 0.2
CMLC2012-22NJC	22	J	18	100	0.50	0.30	2100	1400	0.85 ± 0.2
CMLC2012-27NJC	27	J	18	100	0.55	0.30	1800	1300	0.85 ± 0.2
CMLC2012-33NJC	33	J	18	100	0.60	0.30	1700	1200	0.85 ± 0.2
CMLC2012-39NJC	39	J	18	100	0.65	0.30	1400	1000	0.85 ± 0.2
CMLC2012-47NJC	47	J	18	100	0.70	0.30	1200	900	0.85 ± 0.2
CMLC2012-56NJC	56	J	18	100	0.75	0.30	1100	800	0.85 ± 0.2
CMLC2012-68NJC	68	J	18	100	0.80	0.30	900	700	0.85 ± 0.2
CMLC2012-82NJC	82	J	18	100	0.90	0.30	800	600	0.85 ± 0.2
CMLC2012-R10JC	100	J	18	100	0.90	0.30	800	600	0.85 ± 0.2
CMLC2012-R12JC	120	J	13	100	1.0	0.30	700	500	0.85 ± 0.2
CMLC2012-R15JC	150	J	13	100	1.0	0.30	700	500	0.85 ± 0.2
CMLC2012-R18JC	180	J	13	100	1.1	0.30	600	400	0.85 ± 0.2
CMLC2012-R22JC	220	J	12	100	1.2	0.30	550	350	0.85 ± 0.2
CMLC2012-R27JC	270	J	12	100	1.3	0.30	480	300	0.85 ± 0.2
CMLC2012-R33JC	330	J	12	100	1.4	0.30	400	250	0.85 ± 0.2
CMLC2012-R39JC	390	J	10	100	1.3	0.30	400	250	1.25 ± 0.2
CMLC2012-R47JC	470	J	10	100	1.5	0.30	350	200	1.25 ± 0.2

• Tolerance: S=±0.3nH ,J=±5%

• Test equipments:

Inductance Q : HP4291A+I6193A, or equivalent; SRF: HP8720C, or equivalent; DCR: YOKOGAWA TYPE7561, or equivalent

• Rated current : is the current at which the temperature rise is 20°C.