



承认书

APPROVAL SHEET

客户名称:

Customer

/

产品名称:

Part Name

叠层片式铁氧体功率电感器

Multilayer Ferrite Chip Power Inductor

产品规格:

Specification

CMP Series

版本号:

Version No.

18.01

日期:

DATE

2018-5-21



Manufacturer			Customer		
拟制	审核	确认	检验	审核	批准
Draft by	Checked by	Approve by	Check by	Checked by	Approval by
林晓华	徐雪枫	覃贤			

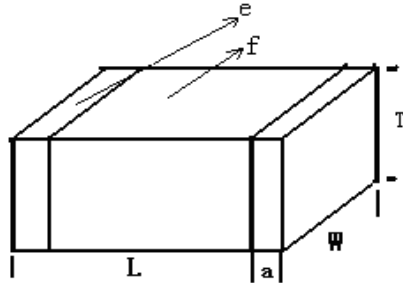


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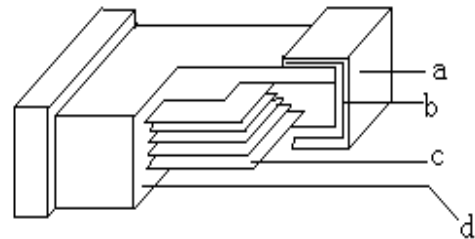


2 外形尺寸与内部结构 Dimension & Inner-configuration:

外形尺寸图:



内部结构图:



- a. 银层 Ag layer
- b. 镀层 Ni/Sn plating
- c. 内电极 Inner electrode
- d. 瓷体 Body
- e. 端电极 Terminal electrode
- f. 瓷体 ferrite or ceramic

序号 No.	部位 Component	材料 Material	
1	瓷体Body	铁氧体电感: 镍铜锌体系Ni-Cu-Zn	
2	内电极Inner electrode	纯银Ag	
3	端电极 Terminal electrode	银层 Ag layer	银Ag
		Ni/Sn镀层Ni/Sn plating	镍层-锡层Ni-Sn

单位Unit: mm(inch)

型号 Size	L	W	T	a
160808	1.6±0.20 (0.063±0.008)	0.8±0.20 (0.031±0.008)	0.8±0.20 (0.031±0.008)	0.3±0.2 (0.01±0.008)
201209	2.0±0.20 (0.079±0.008)	1.2±0.20 (0.047±0.008)	0.9±0.20 (0.035±0.008)	0.5±0.3 (0.020±0.012)
252009	2.5±0.20 (0.098±0.008)	2.0±0.20 (0.079±0.008)	0.9±0.20 (0.035±0.008)	0.5±0.3 (0.020±0.012)
321609	3.2±0.20 (0.126±0.008)	1.6±0.20 (0.063±0.008)	0.9±0.20 (0.035±0.008)	0.5±0.3 (0.020±0.012)

3 产品品名构成 Product Spec. Model

CMP 160808 UE 1R0 M T

- 包装 Packaging: 编带包装 Tape & Reel:T
- 误差范围 Tolerance: M, ±20%
- 电感量 Inductance: 1.0μH
- 材料代号 Material code: UE
- 尺寸 Dimensions: (L×W×T) (1.6×0.8×0.8mm)
- 产品类型 Product symbol:
CMP: 叠层片式铁氧体功率电感器 Multilayer Ferrite Chip Power Inductor



4 电性能参数表 Electrical Characteristics List

型号规格 Part NO.	客户料号 Customer P/N	误差范围 Tolerance (%)	标称感量 Inductance (μH)	直流电阻 RDC (Ω) max	测试频率 Test frequency (MHz)	测试电压 Test voltage (mV)	自谐振频率 SRF (MHz) min	额定电流 Rated current (mA)max
CMP160808VE47NMT		±20	0.047	0.12	1	50	260	150
CMP160808VE56NMT		±20	0.056	0.12	1	50	260	150
CMP160808VE68NMT		±20	0.068	0.12	1	50	250	150
CMP160808VE82NMT		±20	0.082	0.12	1	50	245	150
CMP160808VER10MT		±20	0.10	0.15	1	50	240	150
CMP160808VER12MT		±20	0.12	0.20	1	50	205	150
CMP160808VER15MT		±20	0.15	0.20	1	50	180	150
CMP160808VER18MT		±20	0.18	0.20	1	50	165	150
CMP160808VER22MT		±20	0.22	0.25	1	50	150	150
CMP160808VER27MT		±20	0.27	0.30	1	50	136	100
CMP160808VER33MT		±20	0.33	0.30	1	50	125	100
CMP160808VER39MT		±20	0.39	0.35	1	50	110	100
CMP160808VER47MT		±20	0.47	0.45	1	50	105	100
CMP160808VER56MT		±20	0.56	0.45	1	50	95	100
CMP160808VER68MT		±20	0.68	0.55	1	50	90	100
CMP160808VER82MT		±20	0.82	0.60	1	50	85	100
CMP160808UE1R0MT		±20	1.0	0.30	1	50	75	150
CMP160808UE1R2MT		±20	1.2	0.30	1	50	65	150
CMP160808UE1R5MT		±20	1.5	0.35	1	50	60	120
CMP160808UE1R8MT		±20	1.8	0.40	1	50	55	120
CMP160808UE2R2MT		±20	2.2	0.50	1	50	50	120
CMP160808UE2R7MT		±20	2.7	0.60	1	50	45	100
CMP160808UE3R3MT		±20	3.3	0.65	1	50	40	100
CMP160808UE3R9MT		±20	3.9	0.70	1	50	35	80
CMP160808XE4R7MT		±20	4.7	0.75	1	50	33	80
CMP160808JE5R6MT		±20	5.6	0.90	1	50	22	60
CMP160808JE6R8MT		±20	6.8	0.90	1	50	20	60
CMP160808JE8R2MT		±20	8.2	1.05	1	50	18	60
CMP160808JE100MT		±20	10	1.15	1	50	17	60
CMP160808JE120MT		±20	12	1.25	1	50	15	60



型号规格 Part NO.	客户料号 Customer P/N	误差范围 Tolerance (%)	标称感量 Inductance (μH)	直流电阻 RDC (Ω) max	测试频率 Test frequency (MHz)	测试电压 Test voltage (mV)	自谐振频率 SRF (MHz) min	额定电流 Rated current (mA)max
CMP201209VE47NMT		±20	0.047	0.15	1	50	320	350
CMP201209VE56NMT		±20	0.056	0.15	1	50	320	350
CMP201209VE68NMT		±20	0.068	0.20	1	50	280	350
CMP201209VE82NMT		±20	0.082	0.20	1	50	280	350
CMP201209VER10MT		±20	0.10	0.20	1	50	235	350
CMP201209VER12MT		±20	0.12	0.20	1	50	220	350
CMP201209VER15MT		±20	0.15	0.20	1	50	200	350
CMP201209VER18MT		±20	0.18	0.25	1	50	185	300
CMP201209VER22MT		±20	0.22	0.25	1	50	170	300
CMP201209VER27MT		±20	0.27	0.25	1	50	150	300
CMP201209VER33MT		±20	0.33	0.25	1	50	145	300
CMP201209VER39MT		±20	0.39	0.30	1	50	135	250
CMP201209VER47MT		±20	0.47	0.30	1	50	125	250
CMP201209VER56MT		±20	0.56	0.36	1	50	115	200
CMP201209VER68MT		±20	0.68	0.36	1	50	105	200
CMP201209VER82MT		±20	0.82	0.36	1	50	100	200
CMP201209UE1R0MT		±20	1.0	0.26	1	50	75	220
CMP201209UE1R2MT		±20	1.2	0.26	1	50	65	220
CMP201209UE1R5MT		±20	1.5	0.30	1	50	60	180
CMP201209UE1R8MT		±20	1.8	0.30	1	50	55	180
CMP201209UE2R2MT		±20	2.2	0.36	1	50	50	150
CMP201209UE2R7MT		±20	2.7	0.36	1	50	45	150
CMP201209UE3R3MT		±20	3.3	0.40	1	50	41	120
CMP201209UE3R9MT		±20	3.9	0.40	1	50	38	120
CMP201209UE4R7MT		±20	4.7	0.40	1	50	35	120
CMP201209XE5R6MT		±20	5.6	0.60	1	50	32	100
CMP201209XE6R8MT		±20	6.8	0.60	1	50	29	100
CMP201209XE8R2MT		±20	8.2	0.65	1	50	26	100
CMP201209XE100MT		±20	10	0.65	1	50	24	100
CMP201209XE120MT		±20	12	0.65	1	50	22	100
CMP201209JE150MT		±20	15	0.75	1	50	19	50
CMP201209JE180MT		±20	18	0.75	1	50	18	50
CMP201209JE220MT		±20	22	0.75	1	50	16	50



型号规格 Part NO.	客户料号 Customer P/N	误差范围 Tolerance (%)	标称感量 Inductance (μH)	直流电阻 RDC (Ω) max	测试频率 Test frequency (MHz)	测试电压 Test voltage (mV)	自谐振频率 SRF (MHz) min	额定电流 Rated current (mA)max
CMP321609VE47NMT		±20	0.047	0.15	1	50	320	450
CMP321609VE56NMT		±20	0.056	0.15	1	50	320	450
CMP321609VE68NMT		±20	0.068	0.20	1	50	280	450
CMP321609VE82NMT		±20	0.082	0.20	1	50	280	450
CMP321609VER10MT		±20	0.10	0.20	1	50	235	350
CMP321609VER12MT		±20	0.12	0.20	1	50	220	350
CMP321609VER15MT		±20	0.15	0.20	1	50	200	350
CMP321609VER18MT		±20	0.18	0.20	1	50	185	350
CMP321609VER22MT		±20	0.22	0.20	1	50	170	350
CMP321609VER27MT		±20	0.27	0.20	1	50	150	350
CMP321609VER33MT		±20	0.33	0.20	1	50	145	350
CMP321609VER39MT		±20	0.39	0.30	1	50	135	220
CMP321609VER47MT		±20	0.47	0.30	1	50	125	220
CMP321609VER56MT		±20	0.56	0.30	1	50	115	220
CMP321609VER68MT		±20	0.68	0.30	1	50	105	220
CMP321609VER82MT		±20	0.82	0.30	1	50	100	220
CMP321609UE1R0MT		±20	1.0	0.20	1	50	75	250
CMP321609UE1R2MT		±20	1.2	0.20	1	50	65	250
CMP321609UE1R5MT		±20	1.5	0.25	1	50	60	250
CMP321609UE1R8MT		±20	1.8	0.25	1	50	55	250
CMP321609UE2R2MT		±20	2.2	0.30	1	50	50	200
CMP321609UE2R7MT		±20	2.7	0.30	1	50	45	200
CMP321609UE3R3MT		±20	3.3	0.30	1	50	41	200
CMP321609UE3R9MT		±20	3.9	0.35	1	50	38	150
CMP321609UE4R7MT		±20	4.7	0.35	1	50	35	150
CMP321609UE5R6MT		±20	5.6	0.50	1	50	32	100
CMP321609XE6R8MT		±20	6.8	0.50	1	50	29	100
CMP321609XE8R2MT		±20	8.2	0.50	1	50	26	100
CMP321609XE100MT		±20	10	0.50	1	50	24	100
CMP321609XE120MT		±20	12	0.60	1	50	22	100
CMP321609JE150MT		±20	15	0.80	1	50	19	50
CMP321609JE180MT		±20	18	0.80	1	50	18	50
CMP321609JE220MT		±20	22	1.00	1	50	16	50
CMP321609JE270MT		±20	27	1.00	1	50	14	50



型号规格 Part NO.	客户料号 Customer P/N	误差范围 Tolerance (%)	标称感量 Inductance (μH)	直流电阻 RDC (Ω) max	测试频率 Test frequency (MHz)	测试电压 Test voltage (mV)	自谐振频率 SRF (MHz) min	额定电流 Rated current (mA)max
CMP201209VD47NMT		±20	0.047	0.10	1	50	280	1100
CMP201209VD56NMT		±20	0.056	0.10	1	50	280	1100
CMP201209VD68NMT		±20	0.068	0.15	1	50	250	1100
CMP201209VD82NMT		±20	0.082	0.15	1	50	250	1100
CMP201209VDR10MT		±20	0.10	0.15	1	50	210	1100
CMP201209VDR12MT		±20	0.12	0.15	1	50	200	1100
CMP201209VDR15MT		±20	0.15	0.15	1	50	175	1100
CMP201209VDR18MT		±20	0.18	0.15	1	50	160	1100
CMP201209VDR22MT		±20	0.22	0.15	1	50	150	1100
CMP201209VDR27MT		±20	0.27	0.15	1	50	130	1100
CMP201209VDR33MT		±20	0.33	0.15	1	50	120	1100
CMP201209VDR39MT		±20	0.39	0.15	1	50	110	1100
CMP201209VDR47MT		±20	0.47	0.15	1	50	100	1100
CMP201209VDR56MT		±20	0.56	0.36	1	50	100	800
CMP201209VDR68MT		±20	0.68	0.36	1	50	95	800
CMP201209VDR82MT		±20	0.82	0.36	1	50	90	800
CMP201209UD1R0MT		±20	1.0	0.24	1	50	75	800
CMP201209UD1R2MT		±20	1.2	0.24	1	50	65	800
CMP201209UD1R5MT		±20	1.5	0.30	1	50	60	700
CMP201209UD1R8MT		±20	1.8	0.36	1	50	55	600
CMP201209UD2R2MT		±20	2.2	0.36	1	50	50	600
CMP201209UD2R7MT		±20	2.7	0.36	1	50	45	600
CMP201209UD3R3MT		±20	3.3	0.40	1	50	41	350
CMP201209UD3R9MT		±20	3.9	0.40	1	50	38	350
CMP201209UD4R7MT		±20	4.7	0.40	1	50	35	350
CMP201209XD5R6MT		±20	5.6	0.50	1	50	32	250
CMP201209XD6R8MT		±20	6.8	0.50	1	50	29	250
CMP201209XD8R2MT		±20	8.2	0.56	1	50	26	250
CMP201209XD100MT		±20	10	0.56	1	50	24	250
CMP201209XD120MT		±20	12	0.56	1	50	22	250
CMP201209JD150MT		±20	15	0.65	1	50	19	100



型号规格 Part NO.	客户料号 Customer P/N	误差范围 Tolerance (%)	标称感量 Inductance (μ H)	直流电阻 RDC (Ω) max	测试频率 Test frequency (MHz)	测试电压 Test voltage (mV)	自谐振频率 SRF (MHz) min	额定电流 Rated current (mA)max
CMP321609UD1R0MT		± 20	1.0	0.15	1	50	60	1200
CMP321609UD1R2MT		± 20	1.2	0.15	1	50	65	1200
CMP321609UD1R5MT		± 20	1.5	0.17	1	50	60	1000
CMP321609UD1R8MT		± 20	1.8	0.24	1	50	55	900
CMP321609UD2R2MT		± 20	2.2	0.24	1	50	50	900
CMP321609UD2R7MT		± 20	2.7	0.30	1	50	45	800
CMP321609UD3R3MT		± 20	3.3	0.30	1	50	41	800
CMP321609UD3R9MT		± 20	3.9	0.38	1	50	38	700
CMP321609UD4R7MT		± 20	4.7	0.38	1	50	35	700
CMP321609UD5R6MT		± 20	5.6	0.45	1	50	32	500
CMP321609XD6R8MT		± 20	6.8	0.45	1	50	29	500
CMP321609XD8R2MT		± 20	8.2	0.55	1	50	26	300
CMP321609XD100MT		± 20	10	0.55	1	50	24	300
CMP321609XD120MT		± 20	12	0.55	1	50	22	300
CMP321609JD150MT		± 20	15	0.65	1	50	19	100
CMP321609JD180MT		± 20	18	0.65	1	50	18	100



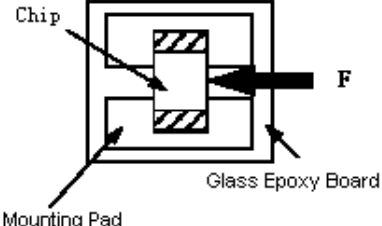
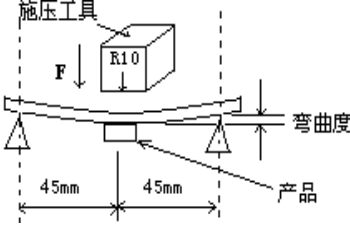
型号规格 Part NO.	客户料号 Customer P/N	误差范围 Tolerance (%)	标称感量 Inductance (μ H)	直流电阻 RDC (Ω) max	测试频率 Test frequency (MHz)	测试电压 Test voltage (mV)	自谐振频率 SRF (MHz) min	额定电流 Rated current (mA)max
CMP252009UD1R0MT		± 20	1.0	0.12	1	50	70	1500
CMP252009UD1R2MT		± 20	1.2	0.15	1	50	50	1500
CMP252009UD1R5MT		± 20	1.5	0.15	1	50	50	1500
CMP252009UD1R8MT		± 20	1.8	0.18	1	50	40	1000
CMP252009UD2R2MT		± 20	2.2	0.18	1	50	40	1000
CMP252009UD2R7MT		± 20	2.7	0.22	1	50	30	1000
CMP252009UD3R3MT		± 20	3.3	0.22	1	50	30	1000
CMP252009UD3R9MT		± 20	3.9	0.26	1	50	25	1000
CMP252009UD4R7MT		± 20	4.7	0.26	1	50	25	1000



5 可靠性试验项目 Reliability Testing Items

序号 No.	项目 Items	要求 Requirements	试验方法及备注 Test Methods and Remarks
1	工作温度范围 Operating Temperature Range	-40℃~+85℃	
2	可焊性 Solder ability	至少 95%端电极表面被焊锡覆盖。 At least 95% of terminal electrode should be covered with solder	预热温度:120℃ ~ 150℃ 预热时间: 60s 焊料: (96.5%Sn/3.0%Ag/0.5%Cu) 焊锡 焊锡温度: 245℃±5℃ 浸锡深度:10mm 浸锡时间 : 5±1s 浸渍到助焊剂约:3 ~ 5 s Preheating temperature:120℃ to 150℃ Preheating time: 60s Solder 96.5%Sn/3.0%Ag/0.5%Cu of the Sn solder. Solder temperature: 245±5℃ Immersion tin depth:10mm Duration : 5±1s Dip performance to a flux of about:3 ~ 5 s
3	耐焊接热 Resistance to Soldering	至少 95%的焊锡覆盖在端电极表面, 无可见机械损伤。 电感量变化率如下: 铁氧体电感 (VE、UE、VD、UD 料): ±20% 铁氧体电感 (XE、XD 料): ±25% 铁氧体电感 (JE、JD 料): ±30% At least 95% of terminal electrode should be covered with solder. No mechanical damage. Inductance : VE、UE 、VD、UD: change within ±20% XE、XD : change within ±25% JE、JD : change within ±30%	预热温度: 120℃~150℃ 预热时间: 60s 焊料: (96.5%Sn/3.0%Ag/0.5%Cu) 焊锡 浸锡温度: 260℃±5℃ 浸锡深度:10mm 浸锡时间 : 10±1s 浸渍到助焊剂约:3 ~ 5 s Preheating temperature: 120℃ to 150℃ Preheating time: 60s Solder 96.5%Sn/3.0%Ag/0.5%Cu of the Sn solder. Solder temperature: 260℃±5℃ Immersion tin depth:10mm Duration : 10±1s Dip performance to a flux of about:3 ~ 5 s

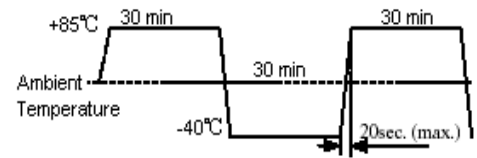


序号 No.	项目 Items	要求 Requirements	试验方法及备注 Test Methods and Remarks
4	端电极强度 Adhesion of electrode	端电极与磁体不应受损，无可见机械损伤。 The termination and body should be no damage.	施加力：1608 系列为 5N；2012、2520、3216、系列为 10N。 保持时间：10±1S Applied force: 5N force for 1608 series. 10N force for 2012、2520、3216 series. Keep time : 10±1S 
5	耐低温 Low temperature resistance	无可见机械损伤， 电感量变化率小于±10%， No mechanical damage. Inductance change: within ±10%	测试温度：-40±2℃ +24 测试时间：1000 -0 h Temperature: -40±2℃ +24 Testing time: 1000 -0 h
6	抗弯强度 Bending strength	无可见机械损伤， 电感量变化率小于±10%， No mechanical damage. Inductance change: within ±10%	测试基板：玻璃环氧树脂基板 加压速度为 0.5mm/s，弯度：2mm，保持时间≥30s Testing board: glass epoxy-resin substrate For 0.5mm/s compression speed, curvature: 2mm, hold time 30 s 
7	跌落 Drop	无可见机械损伤， 电感量变化率小于±10%， No mechanical damage. Inductance change: within ±10%	从高度为 1 米的空中自由落到混凝土地板重复 10 次。 Drop 10 times on a concrete floor from a high of 1m.



序号 No.	项目 Items	要求 Requirements	试验方法及备注 Test Methods and Remarks
8	振动 Vibration	无可见机械损伤, 电感量变化率小于±10%, No mechanical damage. Inductance change: within ±10%	振幅: 1.5mm 测试时间: 沿三个垂直方向各做 2 小时 频率范围: 10Hz~55Hz~10Hz (1 分钟) Amplitude modulation: 1.5mm Test time: A period of 2h in each of 3 mutually perpendicular directions. Frequency range: 10Hz to 55Hz to 10Hz for 1min.
9	耐高温 High temperature resistance	无可见机械损伤, 电感量变化率小于±10%, No mechanical damage. Inductance change: within ±10%	测试时间: 1000^{+24}_{-0} h 测试温度: $85 \pm 2^{\circ}\text{C}$ Testing time: 1000^{+24}_{-0} h Temperature: $85 \pm 2^{\circ}\text{C}$
10	恒定湿热 Static Humidity	无可见机械损伤, 电感量变化率小于±10%, No mechanical damage. Inductance change: within ±10%	湿度: 90%~95% RH, 温度: $60^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 测试时间: 1000^{+24}_{-0} h Humidity: 90% to 95% RH Temperature: $60^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Testing time: 1000^{+24}_{-0} h
11	高温负载 High temperature load	无可见机械损伤, 电感量变化率小于±10%, No mechanical damage. Inductance change: within ±10%	施加电流: 额定电流 测试时间: 1000^{+24}_{-0} h 测试温度: $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ impose current: at room Testing time: 1000^{+24}_{-0} h Temperature: $85 \pm 2^{\circ}\text{C}$



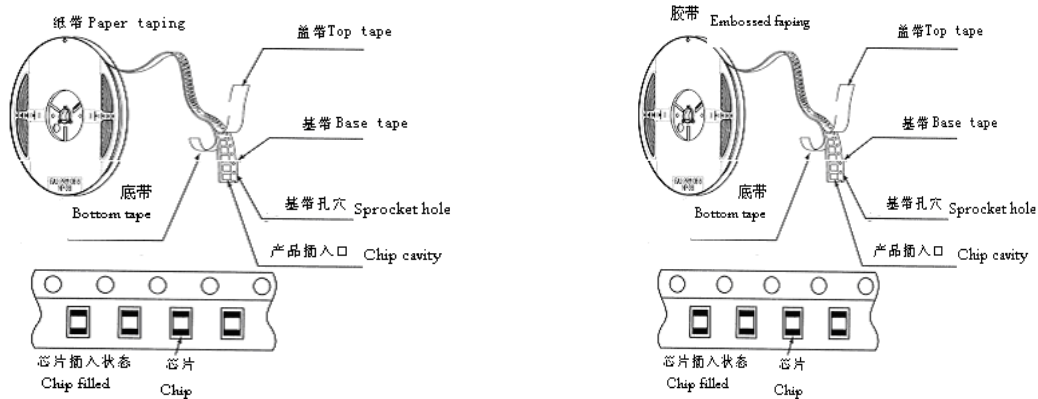
序号 No.	项目 Items	要求 Requirements	试验方法及备注 Test Methods and Remarks
12	温度循环 Thermal Shock	无可见机械损伤, 电感量变化率小于±10%, No mechanical damage. Inductance change: within ±10%	温度: -40℃, 30±3分钟 +85℃, 30±3分钟 循环次数: 32 Temperature: -40℃ for 30±3min +85℃ for 30±3min Number of cycles: 32 

注: 以上要求测试电性能的项目, 应试验后在标准条件下放置 24 小时后测试。

Note: When there are questions concerning, measurement shall be made after 24±2hrs of recovery under the standard condition.

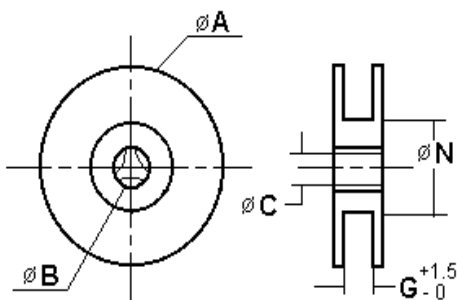
6 产品包装 Packaging

1) 编带图 Taping drawings



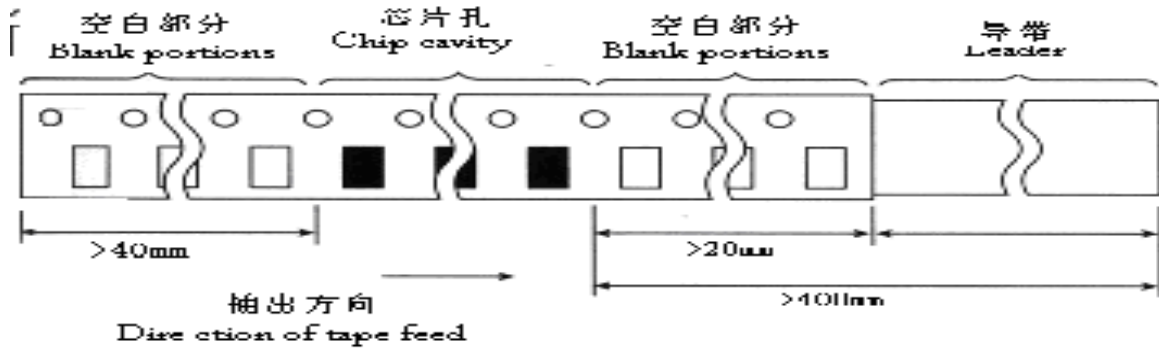
2) 卷盘尺寸 Reel dimensions (Unit:mm)

型号 Size	A	B	C	N	G
CF-8	178±2.0	22.0±2.0	12.5±1.5	57±2.0	8
CF-12	330±2.0	22.0±2.0	12.5±1.5	98±2.0	12



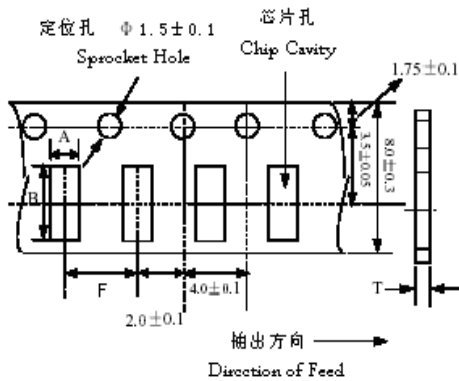


3) 导带及空格部分 Leader and blank portion



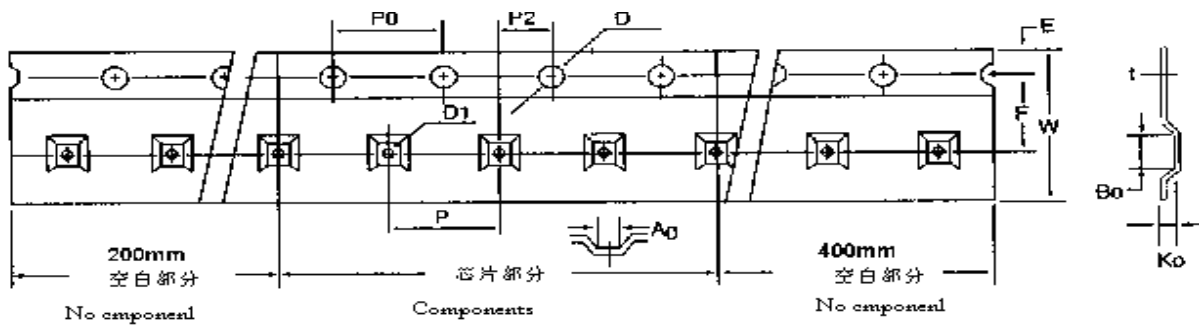
4) 编带尺寸 Taping dimensions (Unit: mm)

纸带 Paper tape



Part NO.	A	B	F	T
160808	1.1±0.2	1.9±0.2	4.0±0.2	1.1max
201209	1.5±0.2	2.3±0.2	4.0±0.2	1.1max
321609	1.9±0.2	3.5±0.2	4.0±0.2	1.1max

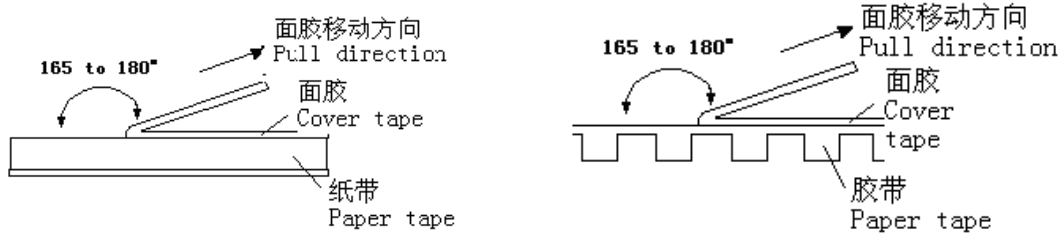
5) 塑料胶带 Embossed tape



	2520
W	8.00+/-0.2
P	4.00+/-0.10
E	1.75+/-0.10
F	3.50+/-0.05
D	1.50+/-0.10
D1	1.00+/-0.10
P ₀	4.00+/-0.10
P ₀ 10	40.0+/-0.20
P2	2.0+/-0.10
A ₀	2.20+/-0.10
B ₀	2.75+/-0.10
t	0.23+/-0.05
K ₀	1.05+/-0.01



6) 剥离力检验 Peeling off force



- ① 盖带的剥离力：沿面胶移动方向拉时要求剥离力为 0.1N~0.7N。
Peeling force should be 0.1~0.7N pulling in the direction of arrow.
- ② 剥离速度：300mm/min
Speed of peeling off: 300mm/min.
- ③ 在胶带、纸带剥落时，面胶不能有破损，不能粘纸带。
The cover bond should not be damaged and bond the tape when it peeled off.

7) 包装数量 (单位：粒) Packaging number (Unit: Pcs)

类型 SIZE	252010	201209	160808
每卷数量 REEL	3000	4000	4000
每盒数量 BOX	30000	40000	40000
每箱数量 CASE	180000	240000	240000

8) 标签粘贴位置 Label stick station

卷盘标签 Reel label	纸盒标签 Carton label	纸盒标签 Carton label	外箱标签 Outer box label
			

7 推荐焊接条件 Recommend Soldering Conditions

1) 焊接条件 Soldering Conditions

产品适用于波峰焊和回流焊 Products can be applied to reflow and flow soldering.

① 焊接要求 Soldering conditions

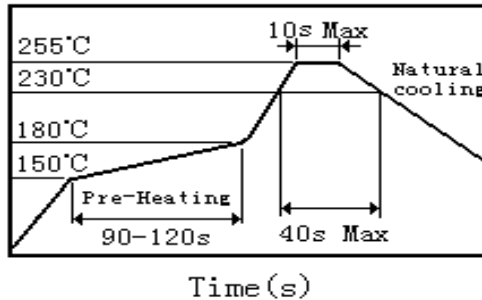
- 预热时，产品表温与焊料温度的温差最大不允许超出 150℃，焊接完冷却时，产品表温与溶剂温度之间的温差最大不超过 100℃。预热不足有可能引发产品表面裂纹，从而导致产品品质下降。
Pre-heating should be in such a way that the temperature difference between solder and ferrite surface is limited to 150℃ max. Also cooling into solvent after soldering should be in such way that the temperature difference is limited to 100℃ max. Un-enough pre-heating may cause cracks on the ferrite, resulting in the deterioration of product quality.
- 产品要在以下画出的曲线允许的范围进行焊接。其它焊接条件可能引起产品电极的腐蚀。当焊接



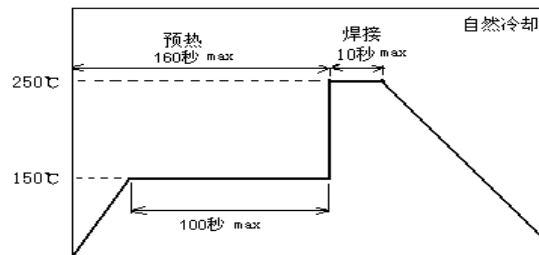
重复时，允许的时间为第一次做的累计时间。

Products should be soldered within the following allowable range indicated by the slanted line. The excessive soldering conditions may cause the corrosion of the electrode. When soldering is repeated, allowable time is the accumulated time.

2) 回流焊曲线 Reflow soldering profile



3) 波峰焊曲线 Flow soldering profile

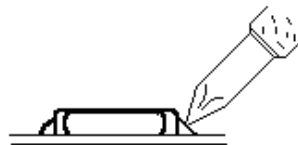


4) 手工焊接 Iron soldering

烙铁温度：350°C Perform soldering at 350°C on 30W max

功率：最大为 30W Time: < 5S

烙铁停留时间：< 5S(注意不要将烙铁碰到产品端电极) Take care not to apply the tip of the soldering iron to the terminal electrodes



8 清洗 Cleaning

1) 清洗条件 Cleaning Conditions

清洗温度：60°C (最高) Cleaning temperature : 60°C max

清洗时间：1 分钟 (最少) Cleaning time: 1 minute min.

超声波功率：最大为 200W Ultrasonic output power: 200W max

9 存储要求 Storage Requirements

1) 存储期限 Storage period

距电感公司出厂检验时间 6 个月内，产品可以使用检验时间可以通过包装外侧标记的检验号确认。若时间超过 6 个月，应检查焊接性能后方可使用。



Products which inspected in inductor company over 6 months ago should be examined and used, which can be Confirmed with inspection No. marked on the container. Solder ability should be checked if this period is exceeded.

2) 存储条件 Storage conditions

- (1) 存放货物的库房应满足以下条件：温度：-10 ~ +40℃，相对湿度：30 ~ 70%。
- (2) 禁止将产品保管在腐蚀性物质中，如硫磺、氯气或酸，否则将引起端头氧化，导致降低焊接性。
- (3) 为了避免受潮气、灰尘等物质的影响，产品应保管于货架上。
- (4) 产品保管在库房中，应避免热冲击、振动以及直接光照等等。
- (5) 产品应密封包装。

(1) Products should be storage in the warehouse on the following conditions:

Temperature : -10~+40℃ Humidity: 30~70% relative humidity

(2) Don't keep products in corrosive gases such as sulfur, chlorine gas or acid , or it may case oxidization of Electrodes resulting in poor solder ability.

(3) Products should be stored on the palette for the prevention of the influence from humidity, dust and so on.

(4) Products should be stored in the warehouse without heat shock, vibration, direct sunlight and so on.

(5) Products should be stored under the airtight packaged condition.

10 ODS（消耗臭氧层物质）的使用情况 Usage Of ODS

1) 对于以下所列物质，我公司在生产过程中绝不使用。

ODS: CCl₄（四氯化碳）、HCFC 等。

1) For ODS listed below , we don't use in process.

ODS: CCl₄, HCFC, etc.

11 注意事项 Notes

(1) 若本次承认的为“整体无铅”产品，则表明该产品符合 RoHS 指令的要求。

(2) 本承认书保证我司产品作为一个单体时的质量情况，当我司产品被安装到贵司产品上时请保证贵司的产品已根据贵司的规范进行了有效评价和确认。

(3) 如果贵司对我司产品的试用已超过了本测试规范所界定的产品功能，对于此所引发的失效我司将不予保证。

(1) If the parcel label on product is "Unitary lead free" that indicate the products in accord with ROHS appointed requests.

(2) This product specification guarantees the quality of our product as a single unit, Please make sure that your product has been evaluated and confirmed against your specifications when our product is mounted to your product.

(3) We can't warrant against failure caused by any use of our product that deviates from the intended use as described in this product specification.

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