瓷介电容器

Ceramic Capacitors

□用途

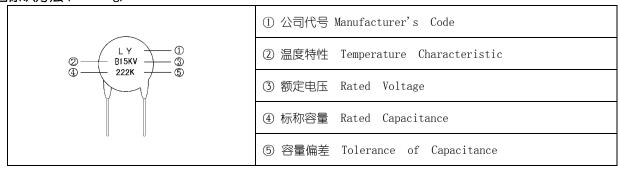
■Application

该产品主要用于彩电、计算机显示器、复印机、医疗设备、节能灯等的电源电路 、输出电路等部分。 Using for H-out and supply circuits of color TV and monitor、copy machine、Medical equipment、inverter lighting.

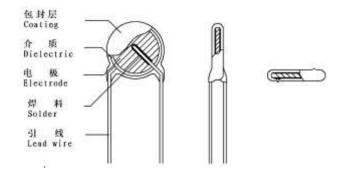
□外观及结构(Appearance and Structure)

Jy Xy X 台村 (Appearance and Structure)							
编 码 CODE	品 名 CODE NO.	Dmax (mm)	Tmax (mm)	F (mm)	d (mm)	外观结构 STYLE	
	CT81-15KV-2B4-102K	18.0	10.0	12.5	0.8	D max	
	CT81-15KV-2B4-222K	24. 0	10.0	10.0	0.8		
	CT81-20KV-2B4-471K	16. 0	9.0	10.0	0.8	35 8	
						F±1.5	
						F±1.5	
						T max	
						d ± 10%	

□标识方法(Marking)



□结构(Structure)



包封层(Coating) : 环氧树脂(Epoxy Resin)

介质(Dielectric): 陶 瓷(Ceramic)

电极(Electrode : 银 (Silver)

焊料(Solder) : 锡(Alloy Tin)

引线(Lead Wire): 镀锡引出线(Lead)

□主要材料(Main Material)

SrCO₃ BaCO₃ TiO₂ Bi₂O₃ CaCO₃ Nb₂O₅ MgO 银膏(Silver paste) 环氧树脂(Epoxy Resin)

□室内条件(Room Condition)

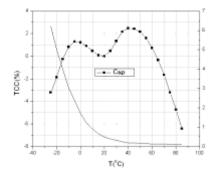
温度(Temp.): 15~35℃ 湿度(R.H.): 45~75% 气压(Atm pressure): 86~106kPa(860~1060mbar)

□测试条件(Test Condition)

温度(Temp.): 20±2℃ 湿度(R.H.): 50~60% 电压(Vol.): 1.0±0.2Vrms 频率(Freq.): 1±0.2KHz

□容量—温度变化曲线 Cap. —Temp. Curve

2B4



□型号命名方法 Part Code Designation

①种类 Class

代码 Code	种类 Class			
CT81	II 类高压	Class	\coprod	High-Voltage

②额定电压 Rated Voltage

代码 Code	额定电压 Rated Vol.	代码 Code	额定电压 Rated Vol.
15KV	15000V. DC		
20KV	20000V. DC		

③温度特性 Temperature Characteristic

代码 Code	容量变化 Cap. Change
2B4	-10 ~ +10 %

④标称容量 Rated Capacitance

代码 Code	静电容量 Capacitance
471	470pF
102	1000pF
222	2200pF

⑤ 容量允差 Tolerance

代码 Code	容量允差 Tolerance
K	± 10%

□包装 (packing)

1、包装数量 (packing quantity):

成型方式	袋装数量(只)
Molding mode	Quantity per bag (pcs)
b	50 ~ 100

2、包装标识 (packing marking):

示例(Example)	项 目(Item)		
	# (公司商标 (Manufacturer's Marking)	
	RoHS	环保标识 RoHS Designation	
(Note) (利用) (利用) (1) (物料编码 Code	用户要求时 When the customer require	
初科编码 規格型号 CT81-10KV-2D4-102K 主产批号 81807045183 34 收载代号 13b	规格型号 Model	详见如上表格, (Please see the detail in the upper sheet)	
生产日期 HSF20180717 数 量 50	生产批号 Product lots	生产批号 Product lots	
	成型代号 lead shape	用户要求时 When the customer require	
	生产日期 Productive date	产品生产时间 the produce time of the product	
	数 量 Quantity	每盒的包装数量 the packing quantity per plastic bag	

3、外包装 (over-wrap packing):

内包装箱 (internal packing boxes) (A1:360×200×140mm、A2:198×177×138mm)

外包装箱 (over-wrap boxes) (B1:460×380×220mm、B2:425×380×170mm)

装箱数量应为最小包装的整数倍。(The packing quantity should be integral multiple of minimal packaging.)

□规格及试验方法 Specification and Test Method

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项 目		规 格	试验方法及条件	
ITEM		SPECIFICATION	TEST METHOD AND CONDITION	
1.存储温度范围 Storage Temp. Range		-40℃~+ 85℃		
2.使用温度范 Operating	唐 Temp. Range	-25℃~+ 85℃		
3.外观尺寸 Appearance and Dimension		外观无可见损伤 尺寸在规格内 Appearance has no marked defect. Dimensions shall be within specified tolerance.	外观用目视法观测 尺寸用游标卡尺测量 Appearance be watched on sight Dimension be measured by caliper	
4. 标识 Mark		应清晰可见 Should be discerned easily.	用目视法观测 Be watched on sight	
5. 静电容量 Capacitano	ce	在规格范围内 Within specified tolerance	温度 Temp. 20±2℃ 电压 Vol. 1.0±0.2Vrms 频率 Freq. 1±0.1KHz	
6. 损耗因数 Dissipation	on Factor	B: 2.5%max	同上 Same condition as capacitance	
7. 绝缘电阻 Insulation	n Resistance	大于 10,000MΩ 10,000MΩmin	500 ± 50 V.DC 的电压充电一分钟。 The insulation Resistance shall be measured with 500 ± 50 V.DC within 60 ± 5 sec of charging.	
8. 耐电压 Dielectric Strength	端子间 Between Lead Wires	无不良 No failure.	端子间施加 150%的额定电压一分钟。(充放电电流<50mA) Apply a DC voltage of 150% of the rated voltage for 1 min. (Charge/discharge current<50mA)	
	端子与 外壳间 Body Insulation	无不良 No failure.	如图,将电容器的引线连在一起,主体外紧包一层金属箔,边沿距引线 3-4mm,在电容器引线和金属箔间施加额定电压一分钟。 (充放电电流<50mA) The terminals of the capacitor shall be connected together, A metal foil shall be closely wrapped around the body of the capacitor to the distance of about 3-4 mm from each terminal, A voltage of the rated is applied between the capacitor lead wires and the metal balls for 1 min. (Charge/discharge current<50mA)	
9. 温度特性 Temp. Char.	Ct — C3 C3	B:-10~+10%	静电容量测试须依下列顺序测试。 试验前: 电容器应放置在 85±2℃的温度下 1 小时, 然后在常温下恢复 24±2 小时后测试。 The capacitance measurement shall be made at each step specifias following. Capacitance change from the volume of step 1 shanot exceed the limit specified. pre-treatment: The capacitor shall be placed at 85±2℃ 1 hour, then placed at room condition for 24±2 hours before initial measurement. 步骤(Step) ① ② ③ ④ ⑤	
			温度(Temp.) 20±2℃ -25±2℃ 20±2℃ 85±2℃ 20±2℃	

项 目 ITEM	规 SPECIFI	格 CATION	试验方法及条件 TEST METHOD AND CONDITION
10. 端子强度 Strength of Lead Wires (c 式不做此 项 Type c none)	抗拉强度 Pull	导线不断裂 电容器不破损 Lead wire shall not cut off and capacitor	±1sec.
	弯曲强度 Bending	shall not be damaged	在端子间施加 $5N$ 负荷并弯曲 90° ,回复原后反向弯曲 90° ,每次弯曲时间为 $2 \cong 3$ 秒,连续 2 次。 Each lead wire shall be subjected to $5N$ weight and then a 90° bend, at the point of egress, in one direction return to original position, and then a 90° bend in the opposite direction at the rate of one bend in 23 s for 2times .
11. 耐焊接热 Soldering Effect	外观 Appearance	无显著异常 No marked defect	将端子浸入温度为 260±5 ℃的熔锡内,外保留 1.5-2.0mm 距离主体边缘,并保持 5.0±0.5 秒。 试验前:电容器应放置在 85±2℃的温度下 1 小时, 然后在常温下恢复 24±2 小时后测试。
	容量变化 Capacitance Change	B: ± 10%max	试验后: 室内条件下恢复 24 ± 2 小时。 The lead wires shall be immersed into the melted solder of 260 ± 5 $\mathbb C$ up to about 1.5 to 2.0 mm from the main body for 5.0 ± 0.5 sec. Pre-treatment: The capacitor shall be placed at. 85 ± 2 $\mathbb C$ for 1 hour, then placed at room condition for 24 ± 2 hours before initial measurement. Post-treatment: Capacitor shall be stored for 24 ± 2 hours at room condition.
12. 温度循环 Temp. Cycling	外观 Appearance	无显著异常 No marked defect	将电容器放入高低温箱,按下列步骤循环 5 次。 试验前: 电容器应放置在 85±2℃的温度下 1 小时, 然后在常温下恢复 24±2 小时后测试。 试验后: 在室内条件下恢复 24±2 小时测试。 The capacitor shall be introduced into the test chamber, and shall be exposed to the temperature conditions as shown in table at 5 cycles.
	容量变化 Capacitance Change	B: ± 10%max	pre-treatment: The capacitor shall be placed at 85 ± 2 °C for 1 hour, then placed at room condition for 24 ± 2 hours before initial measurement. Post-treatment: Capacitor shall be stored for 24 ± 2 hours at room conditions.
			步骤(STEP) 1 2 3 4 温度(TEMP.) -25±3℃ 20±2℃ 85±3℃ 20±2℃ 时间(TIME) 30±3min. 3min. max 30±3min. 3min. max
13. 耐振性 Vibration Resistance	外观 Appearance 容量变化 Capacitance Change	无显著异常 No marked defect B:±10%max	电容器须焊锡固定好,固定点距电容器主体 3±1.0mm, 并经 10Hz→500Hz 之振动频率,全振幅 1.5mm, 振动时间为 6 小时,往 X、Y、2 轴三个方向(各 2 小时)。 试验前:电容器应放置在 85±2℃的温度下 1 小时,然后在常温下恢复 24±2 小时测试。 试验后:在室内条件下恢复 24±2 小时测试。 The capacitor shall firmly be soldered to the supporting lead wires about3±1.0 mm from the body of the capacitor and vibration which is 10 to 500Hz in the vibration frequency range, 1.5mm in total amplitude, for a total of6hours, 2 hours each in three mutually perpendicular directions. pre-treatment: The capacitor shall be placed at 85±2℃ for 1 hour, then placed at room condition for 24±2hours before initial measurement.
14. 易焊性 Solder ability of lead wires	with uniforml	all be soldered y coated on the ion over 90% of	Post-treatment: Capacitor shall be stored for 24±2 hours at room conditions. 寻线须浸入助焊剂后再浸入 245±5℃的熔锡内,松香浓度 25‰t, 距离主体 2.0~2.5mm,时间 2±0.5 秒。 The lead wires of the capacitor shall be dipped into a alcohol solution of 25% wt rosin and then into molten solder of 245±5℃ for 2±0.5 sec. In both case the depth of dipping is up to about 2.0 to 2.5 mm from the root of the lead wires.
	direction.		

项 目 ITEM	规 格 SPECIFICATION		试验方法及条件 TEST METHOD AND CONDITION
15. 碰撞试验 Collision Resistance	外观 Appearance 容量变化 Capacitance Change	无显著异常 No marked defect B: ±10%max	电容器须焊锡固定好,固定点距电容器主体 3±1.0mm,并施加一加速度为 390m/s2,脉冲时间为 6ms 的碰撞,次数为 4000 次。 试验前: 电容器应放置在 85±2℃的温度下 1 小时,然后在常温下恢复 24±2 小时后测试。 试验后: 在室内条件下恢复 24±2 小时测试。 The capacitor shall firmly be soldered to the supporting lead wire about3±1.0 mm from the body of the capacitor and a collision which is 390m/s² in the acceleration, 6ms in the pulse cycle for 4000 times. pre-treatment: The capacitor shall be placed at 85±2℃ for 1 hour, then placed at room condition for 24±2 hours before initial measurement. Post-treatment: Capacitor shall be stored for 24±2 hours at room conditions.
16. 湿 热 循 环 Humidity Cycling	外观 Appearance 容量变化 Capacitance Change 损耗因数 D.F. 绝缘电阻 I.R.	无显著异常 No marked defect B: ±10%max B: 5.0%max 大于 2500MΩ 2500MΩmin	电容器在温度 40±2℃,湿度 95±3%RH 下放置 8 小时,室温下放置 16 小时,循环 5 次。 试验后:在室内条件下恢复 1 至 2 小时。 Set the capacitor for 8 hours at 40±2℃ in 95 ±3% RH, then placed at room condition for 16 hours, circulating for 5 times. Post-treatment: The capacitor shall be stored for 1 to 2 hours at room condition.
17. 耐湿性 Humidity (Under Steady State)	外观 Appearance 容量变化 Capacitance Change 损耗因数 D. F. 绝缘电阻 I. R.	无显著异常 No marked defect B: ±10%max B: 5.0%max 大于 2500MΩ 2500MΩmin	电容器在温度 40±2℃,湿度 95±3%RH 下放置 500±12 小时。 试验前: 电容器应放置在 85±2℃的温度下 1 小时,然后在常温下恢复 24±2 小时后测试。 试验后: 在室内条件下恢复 24±2 小时。 Set the capacitor for 500±12 hours at 40±2℃ in 95±3% RH. pre-treatment: The capacitor shall be placed at 85±2℃ for 1 hour, then placed at room condition for 24±2 hours before initial measurement. Post-treatment: The capacitor shall be stored for 24±2 hours at room condition.

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