瓷介电容器

Ceramic Capacitors

□用途

\square Application

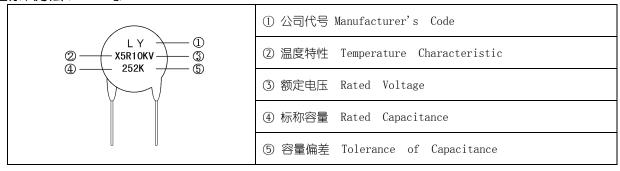
该产品主要用于彩电、计算机显示器、复印机、医疗设备、节能灯等的电源电路 、输出电路等部分。 Using for H-out and supply circuits of color TV and monitor、copy machine、Medical equipment、inverter lighting.

□外观及结构(Appearance and Structure)

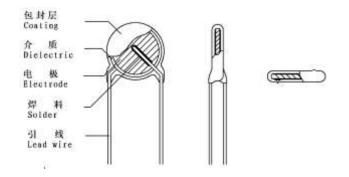
	lice and burdeture)					
编 码 CODE	品 名 CODE NO.	Dmax (mm)	Tmax (mm)	F (mm)	d (mm)	外观结构 STYLE
	CT81-10KV-X5R-252K	24.0	9.0	10.0	0.8	D max
						35 max

						F±1.5
						1 1.
						→ T max
						d±10%
						- →∏
	1	1	1	1	l	

□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)

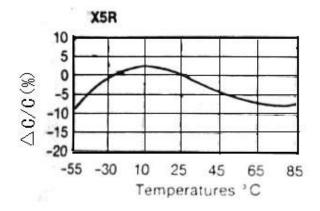
□室内条件(Room Condition)

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



□型号命名方法 Part Code Designation

①种类 Class

代码	种类			
Code	Class			
CT81	II 类高压	Class	Π	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.
10KV	10000V. DC		

③温度特性 Temperature Characteristic

代码 Code	温度范围 Temp. Range	容量变化 Cap. Change
X5R	-55~+85℃	-15~+15%

④标称容量 Rated Capacitance

代码 Code	静电容量 Capacitance
252	2500pF

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

2、包装标识 (packing marking):

示例(Example)	项 目(Item)		
	⊕ E E M	公司商标 (Manufacturer's Marking)	
	RoHS	环保标识 RoHS Designation	
SERVICE CONTRACTOR SERVICES SERVIC	物料编码 Code	用户要求时 When the customer require	
物科编码 機構型号 CT81-10KV-2D4-102K 生产批号 81807045183 34 成形代号 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 章 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

		rication and lest	Method	\ _\ \	+ + ¬	AS IIL		
项目		规 格	_		方法及		NAT.	
ITEM		SPECIFICATION]	IEST MET	HOD AND	CONDITIO)N	
1. 存储温度范 Storage Te	西 Range	-55℃~+ 85℃						
2.使用温度范围 - Operating Temp. Range		-55℃~+ 85℃						
3. 外观尺寸 Appearance and Dimension Appearance has no marked defect. Dimensions shall be within specified tolerance. 外观无可见损伤 P、寸在规格内 Appearance has no marked defect. Dimensions shall be within specified tolerance.			则量 watched o	_				
4. 标识 Mark		应清晰可见 Should be discerned easily.	用目视法观测 Be watched on s	sight				
5. 静电容量 Capacitano	ce	在规格范围内 Within specified tolerance	温度 Temp. 20: 电压 Vol. 1.0 频率 Freq. 1±) ± 0.2Vrm	S			
6. 损耗因数 Dissipation	on Factor	2.5% max	同上 Same condition	as capac	itance			
7. 绝缘电阻 Insulation	n Resistance	大于 10,000MΩ 10,000MΩmin	500±50V.DC的电压充电一分钟。 The insulation Resistance shall be measured with 500±50 within 60±5 sec of charging.			0 ± 50V. DC		
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.	or about o r mm rrom cach terminar,			about		
9. 温度特性 Temp. Char.	Ct - C3 C3	-15~+15%	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 speci as following. Capacitance change from the volume of step 1 s not 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 be initial measurement.			ep1shall ±2℃ for		
			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	把制品固定,在端子引出方向施加负荷 10N 保持 10±1 秒。 Fix the body of the capacitor and apply a tensile weight gradually to each lead wire in the radial direction of capacitor up to 10N, and keep it for 10±1 sec.		
	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 至 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 2-3 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。 试验后:室内条件下恢复 24±2 小时。		
	容量变化 Capacitance Change	±15% max	The lead wires shall be immersed into the melted solder of 260 ±5℃ 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℃ 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	±15% max	pre-treatment: The capacitor shall be placed at $85\pm2\%$ 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 ± 15% 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→500H之振动频率,全振幅 1.5mm,振动时间为 6 小时,往 X、Y、Z 轴三个方向(2 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 leawires about 3±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 of 6 hours, 2 hours each in three mutuall perpendicular directions. 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.		
14. 易焊性 Solder ability of lead wires	with uniforml	all be soldered y coated on the ion over 90% of	导线须浸入助焊剂后再浸入 245 ± 5 ℃的熔锡内,松香浓度 25 %wt,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.		

项 目	规格	 各	试 验 方 法 及 条 件			
以 ITEM	SPECIFICA		は かん スタ ま 年 TEST METHOD AND CONDITION			
15. 碰撞试验 Collision Resistance	外观 Appearance	无显著异常 No marked defect	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。			
	容量变化 Capacitance Change	±15% max	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 for24±2 hours at room conditions.			
16. 湿 热 循 环 Humidity Cycling	Humidity Cycling Appearance Po marked defect 容量变化 Capacitance Change No marked defect は は Set		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.			
	损耗因数 D. F.	5.0% max	Post-treatment: The capacitor shall be stored for 1 to 2 hours at room condition.			
	绝缘电阻 I. R.	大于 2500MΩ 2500MΩmin				
17. 耐湿性 Humidity (Under Steady	外观 Appearance	无显著异常 No marked defect	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。			
State) {	容量变化 Capacitance Change	±15% max	武验后: 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			
	损耗因数 D. F.	5.0% max	24±2 hours before initial measurement. Post-treatment: The capacitor shall be stored for 24±2 hours at room condition.			
	绝缘电阻 I. R.	大于 2500MΩ 2500MΩmin				

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