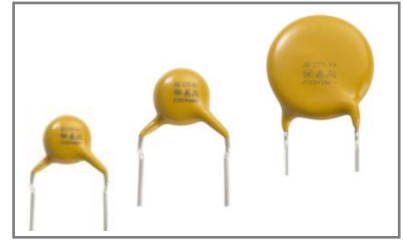


CT7 系列安规瓷介电容器--常规品  
 CT7 Alternating Current Disk Ceramic Capacitor  
 (Conventional Product)



◆特征

Feature

- \* 符合 GB/T 6346.14-2015/IEC 60384.14-2005 认证标准。  
 Comply with GB/T 6346.14-2015/IEC 60384.14-2005 .
- \* 绝缘性能好、耐压保险系数大，能承受较大脉冲电压冲击。  
 Good insulation performance, high voltage safety factor, can withstand larger pulse voltage shocks.

◆应用

Application

- \* 适于在电子设备中作为跨电源线连接、天线耦合、旁路、滤波等。  
 It is suitable for cross power line connection, antenna coupling, by-pass, filter and so on in electronic equipment

◆型号表示法

Part Number

编码 Coding	CT7-	Y	12	Y5U	0	E	472	M	T	E	A	02
段数 Segment number	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
											厂商内部代码 Manufacturer's internal code	



(1) 产品类型 Product Type

代码	产品类型
CT7-	安规瓷介电容器--常规品 Alternating Current Disk Ceramic Capacitor (Conventional Product)

(2) 额定电压及代码 Rated Voltage and the code

代码 code	X	B	Y	C
电压 Voltage	250VAC	300VAC	400VAC	500VAC

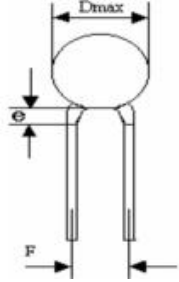
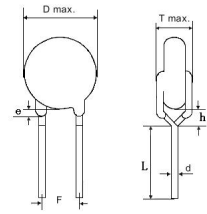
(3) 直径代码 Diameter Code

代码 code	4	5	6	7	8	9
成品尺寸 Finished dimension	7.0max	8.0max	9.0max	10.0max	11.0max	12.0max
代码 code	10	11	12	13	14	15
成品尺寸 Finished dimension	13.0max	14.0max	15.0max	16.0max	17.0max	18.0max

**(4) 温度特性 T.C. Temperature Characteristics**

材质代码 Material Code		温度特性 Temperature Characteristics (温度范围 Temperature range)	容量允许偏差 Capacity tolerance	工作温度范围 Operating temperature range
Used code	EIA code			
Y5P	Y5P	-25℃~+85℃	±10%	-40℃~+125℃
Y5U	Y5U		+22 / -56%	
Y5V	Y5V		+22 / -82%	

**(5) 引线形式 Lead style**

代码 code	脚型 Foot type	图示 Pictorial Representation	代码 code	脚型 Foot type	图示 Pictorial Representation
1	直脚 (长脚) Straight (Long legs)		0	前后打翘 Vertical	
3	直脚 (短脚) Straight (Short feet)				
4	直脚 (编带) Straight (Taping)				

**(6) 引线间距 Lead spacing**

代码 code	D	E
脚距 (mm) Lead spacing (mm)	7.5±0.5	10.0±0.5

**(7) 标称容量 (额定容量) Rated capacitance**

代码 Code	容量 Capacitance	注：标称容量以 pF 为单位，用 3 位数字表示。前两位数字表示有效数字，第三位为 0 的个数；R 表示小数点。 Note: The unit of standard capacitance if consisting of 3 digits, 1st two digits stand for effective value of the Standard capacitance ; third digit indicates the number of zeros; R indicates decimal.
4R7	4.7pF	
330	33pF	
103	10000pF	

**(8) 允许偏 Capacitance Tolerance**

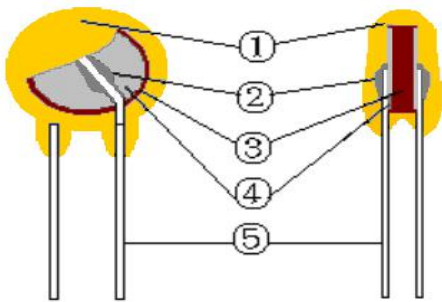
代码 code	K	M	S	Z
容差 Tolerance	±10%	±20%	+50/-20%	+80%/-20%

**(9) 包装形式 Packing style**

代码 code	S	T
包装形式 Packing style	散包装 Bulking	编带包装 Taping

**(10) 环氧树脂封装料颜色 Epoxy color**

代码 code	E	F
环氧树脂 Epoxy	黄色 Yellow	蓝色 Blue

**\* (11) 车规代码 Automotive Grade Code**
**◆ 产品结构**
**Product Structure**


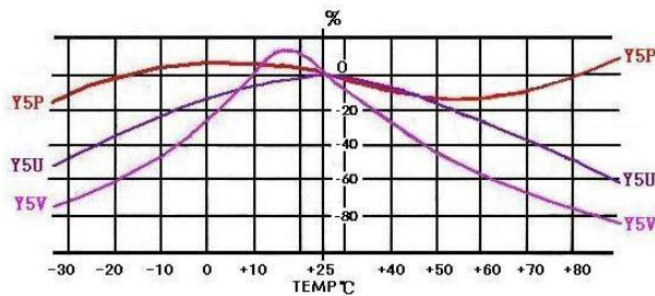
- |   |
|---|
| ①封装层：环氧树脂<br>Encapsulation layer: Envelope: epoxy         |
| ②焊接点：无铅焊锡<br>Solder Joint: Solder Joint: lead-free solder |
| ③电极：银/铜<br>Electrode: Ag / Cu                             |
| ④瓷体：陶瓷介质<br>Ceramic body: ceramic medium                  |
| ⑤引线：铜线<br>Electronic lead: Copper Wire                    |

**◆容值范围**
**Capacity Range**

额定电压 Rated Voltage	Y5P	Y5U	Y5V
Y1: 400VAC/500VAC	100~1000pF	470~4700pF	1000~10000pF
Y2: 250VAC/300VAC	100~1000pF	470~4700pF	1000~10000pF

**◆参数要求及测试条件**
**Parameter Requirements And Test Conditions**

序号 Number	项目 Item	性能要求 Performance requirement	检测方法 Test method		
1	静电容量 Capacitance	在規定允許公差之內 Within the specified Tolerance	测试频率和测试电压 Measuring frequency & Measuring voltage: 1±0.1KHz, 1.0Vrms		
2	损耗角正切值 Loss angle Tangent value	Y5P: $Tg\delta \leq 0.025$ Y5U: $Tg\delta \leq 0.030$ Y5V: $Tg\delta \leq 0.035$	测试环境温度 Measuring temperature: 25±2℃		
3	绝缘电阻 Insulation resistance	$IR \geq 10000M\Omega$	测试电压 Test voltage: 500VDC 施加时间 Application time: 60±5S		
4	端子间耐电压 Resistance between terminal voltage	无击穿 No breakdown	产品类型 Product Type	测试电压 Test Voltage	充放电电流 Charge/ discharge current : <50mA
			Y1-400VAC/500VAC UR: Y2-250VAC/300VAC UR:	10 UR	

**◆产品特性曲线图**
**Product Characteristic Curve**


**◆包装**
**Packaging**

散包装 Bulking		编带 Taping	
最小包装产品数量 Minimum number of packaged products	整箱包装数量 Quantity packed in whole case	最小包装产品数量 Minimum number of packaged products	整箱包装数量 Quantity packed in whole case
0.5Kpcs	30.0~60.0Kpcs	1.0Kpcs	10.0Kpcs

**◆产品的储存**
**Product 's Storage**

- \* 产品储存场地要整洁、干燥、通风、无漏水、无污染。  
Product storage site to clean, dry and ventilated, no leakage, no pollution.
- \* 产品长时间储存时不易直接放在地面，要放在托架上进行防潮。  
Products seldom directly on the ground, when stored for a long time to put on the bracket to moisture proof.
- \* 注意按包装箱上的堆放高度对产品进行堆放。  
Note based on the stacking height of packing products to pile up.

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