



# 瓷介电容器

## □用途

该产品主要用于彩电、计算机显示器、复印机、医疗设备、照明等的电源电路、输出电路等部分。

Using for H-out and supply circuits of color TV and monitor、copy machine、Medical equipment、lighting.



# Ceramic Capacitors

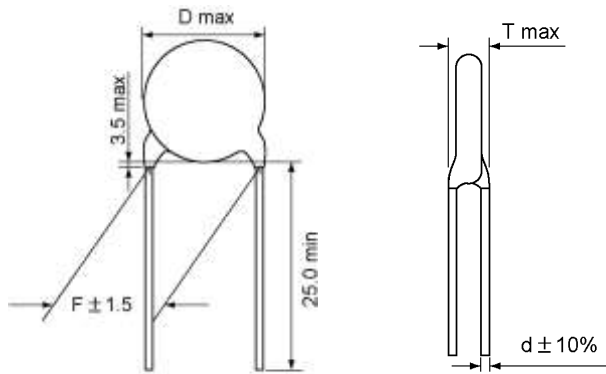
## □Application

## □外观及结构(Appearance and Structure)

| 编 码<br>CODE | 品 名<br>CODE NO.    | Dmax<br>(mm) | Tmax<br>(mm) | F (mm) | d(mm) |
|-------------|--------------------|--------------|--------------|--------|-------|
|             | CT81-25KV-2R4-471K | 16.0         | 9.0          | 10.0   | 0.8   |
|             | CT81-10KV-2D4-102K | 20.0         | 8.0          | 13.0   | 0.8   |
|             | CT81-15KV-2D4-102K | 20.0         | 8.0          | 13.0   | 0.8   |
|             | CT81-15KV-Y5T-102M | 20.0         | 9.0          | 12.5   | 0.8   |
|             | CT81-20KV-2D4-102K | 25.0         | 11.0         | 13.0   | 0.8   |
|             | CT81-20KV-2B4-471K | 15.0         | 9.0          | 10.0   | 0.8   |
|             | CT81-15KV-2B4-102K | 18.0         | 10.0         | 10.0   | 0.8   |
|             | CT81-20KV-2B4-102K | 20.0         | 12.0         | 10.0   | 0.8   |
|             | CT81-10KV-2E4-102M | 12.0         | 10.0         | 10.0   | 0.8   |
|             | CT81-15KV-2E4-222M | 17.0         | 10.0         | 10.0   | 0.8   |
|             | CT81-20KV-2E4-222M | 20.0         | 11.0         | 10.0   | 0.8   |
|             | CT81-30KV-2E4-222M | 25.0         | 16.0         | 19.0   | 1.0   |
|             | CT81-20KV-2E4-472M | 25.0         | 11.0         | 10.0   | 0.8   |
|             | CC81-20KV-ZM-101K  | 9.0          | 9.0          | 10.0   | 0.8   |
|             | CC81-15KV-ZM-102K  | 20.0         | 8.0          | 12.5   | 0.8   |
|             | CC81-20KV-ZM-102K  | 25.0         | 11.0         | 13.0   | 0.8   |
|             | CC81-30KV-ZM-102K  | 29.0         | 13.0         | 20.0   | 1.0   |
|             | CC81-30KV-ZM-501K  | 20.0         | 12.0         | 17.5   | 0.8   |
|             | CC81-10KV-SL-10K   | 9.0          | 7.0          | 10.0   | 0.55  |
|             | CC81-20KV-SL-10K   | 10.0         | 9.0          | 10.0   | 0.8   |
|             | CC81-20KV-SL-20K   | 11.0         | 10.0         | 15.0   | 0.8   |
|             |                    |              |              |        |       |
|             |                    |              |              |        |       |
|             |                    |              |              |        |       |

□引线形式 Lead Shape

散件 (bulk): (单位: mm)



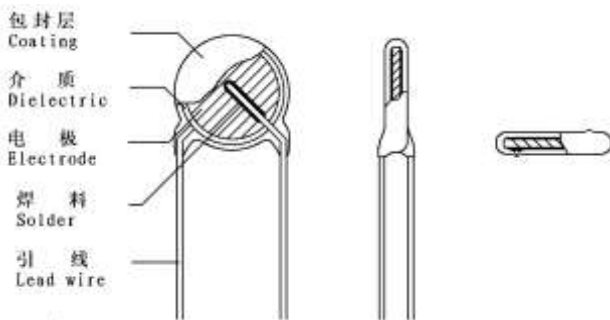
注: ( $F=19/20 \pm 2.0$ ;  $F=10/13 \pm 1.5$ )

b 式 (Type b)

□标识方法 (Marking)

|  |                                   |
|--|-----------------------------------|
| <p>The diagram shows a capacitor with the marking "LY D15KV 102K". Five numbered circles point to: ① LY, ② D15KV, ③ 102K, ④ the first digit '0', and ⑤ the second digit '2'.</p> | ① 公司代号 Manufacturer's Code        |
|  | ② 温度特性 Temperature Characteristic |
|  | ③ 额定电压 Rated Voltage              |
|  | ④ 标称容量 Rated Capacitance          |
|  | ⑤ 容量偏差 Tolerance of Capacitance   |

□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)

$SrCO_3$   $BaCO_3$   $TiO_2$   $Bi_2O_3$   $CaCO_3$   $Nb_2O_5$   $MgO$

银膏 (Silver paste) 环氧树脂 (Epoxy Resin)

室内条件(Room Condition)

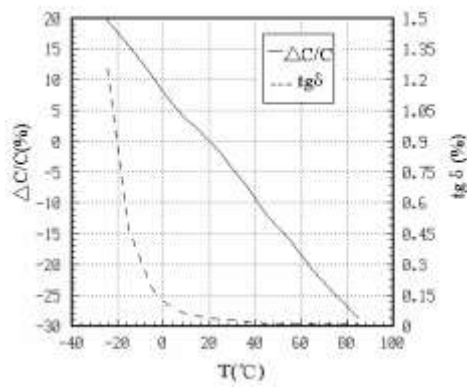
温度(Temp.): 15~35℃ 湿度(R. H.): 45~75%  
 气压(Atm pressure): 86~106kPa(860~1060mbar)

测试条件(Test Condition)

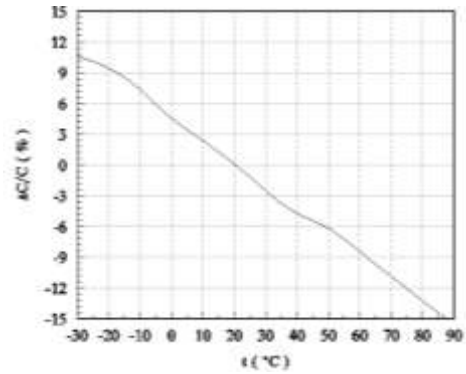
温度(Temp.): 20±2℃ 湿度(R. H.): 50~60%  
 电压(Vol.): 1.0±0.2Vrms 频率(Freq.): 1±0.2KHz (SL: 1±0.2MHz)

容量—温度变化曲线 Cap.—Temp. Curve

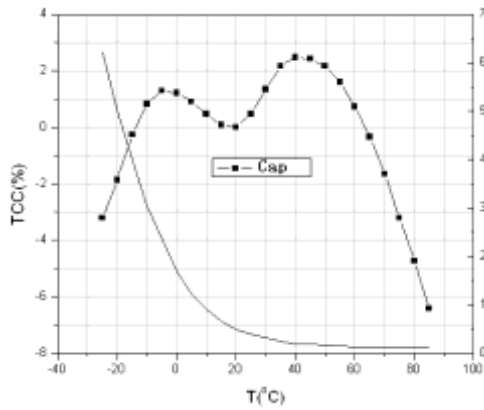
2D4 (ZM, Y5T)



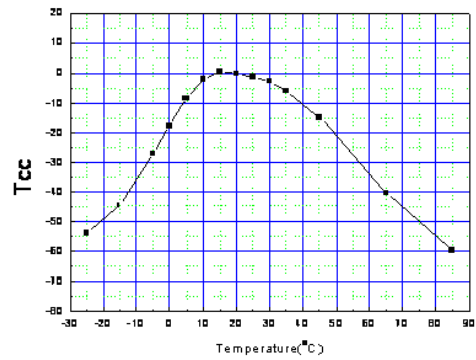
2R4



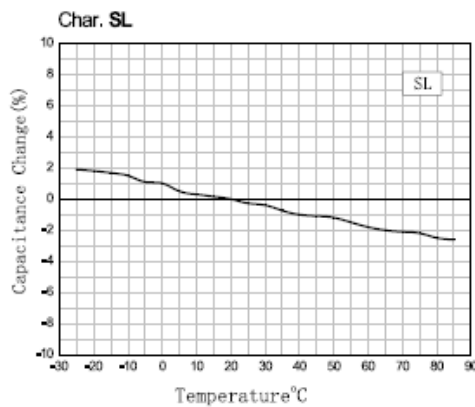
2B4



2E4



SL



□型号命名方法 Part Code Designation

CT81—15KV—2D4—102 K  
 ①            ②            ③            ④ ⑤

①种类 Class

| 代码<br>Code | 种类<br>Class                 |
|------------|-----------------------------|
| CT81       | II类高压 Class II High-Voltage |
| CC81       | I类高压 Class I High-Voltage   |

④标称容量 Rated Capacitance

| 代码<br>Code     | 静电容量<br>Capacitance |
|----------------|---------------------|
| 102            | 1000pF              |
|                |                     |
| 以此类推 And so on |                     |

②额定电压 Rated Voltage

| 代码<br>Code | 额定电压<br>Rated Vol. | 代码<br>Code | 额定电压<br>Rated Vol. |
|------------|--------------------|------------|--------------------|
| 10KV       | 10000V. DC         | 25KV       | 25000V. DC         |
| 15KV       | 15000V. DC         | 30KV       | 30000V. DC         |
| 20KV       | 20000V. DC         |            |                    |

⑤容量允差 Tolerance

| 代码<br>Code | 容量允差<br>Tolerance |
|------------|-------------------|
| K          | ± 10%             |
| M          | ± 20%             |

③温度特性 Temperature Characteristic

| 代码<br>Code | 容量变化<br>Cap. Change |
|------------|---------------------|
| 2D4 (Y5T)  | -30~+20%            |
| 2B4        | -10~+10%            |
| 2R4        | -15~+15%            |
| 2E4        | -56~+22%            |
| ZM         | -4700±1000ppm/°C    |
| SL         | +350~-1000ppm/°C    |

□包装 (packing)

1、包装数量 (packing quantity):

| 成型方式<br>Molding mode | 包装数量(只)<br>Quantity per bag (pcs) |
|----------------------|-----------------------------------|
| b                    | 50 ~ 200                          |

2、包装标识 (packing marking):

| 示例(Example)  | 项 目 (Item)  |  |
|--|---|--|
|  |  | 公司商标 (Manufacturer's Marking)                      |
|  |  | 环保标识 RoHS Designation                              |
|  | 物料编码<br>Code  | 用户要求时<br>When the customer require                 |
|  | 规格型号<br>Model   | 详见如上表格, (Please see the detail in the upper sheet) |
|  | 生产批号<br>Product lots  | 生产批号 Product lots                                  |
|  | 成型代号<br>lead shape  | 用户要求时 When the customer require                    |
|  | 生产日期<br>Productive date   | 产品生产时间 the produce time of the product             |
|  | 数 量<br>Quantity   | 每盒的包装数量<br>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. )