



## 交流瓷介电容器

## AC CERAMIC CAPACITORS

### □用途

该产品主要用于家用电器、办公设备、电子仪器、及其它电子产品作跨电源线、消火花、天地线耦合和旁路电容等。

### □Application

Using as jumper wire, spark killer, antenna coupling, ground coupling, and bypass capacitors in household appliances, office equipment, electronic equipment and other electronic products.

### □安全认证 (safe authentication)

| 认证名称<br>Certification name | 认证标记<br>Mark                                                                        | 认证类别<br>Categories          | 认证电容量分类<br>scope | 认证标准<br>standards                                                  | 证书编号<br>NO.        |
|----------------------------|-------------------------------------------------------------------------------------|-----------------------------|------------------|--------------------------------------------------------------------|--------------------|
| 中国 CQC<br>CHINA CQC        |    | AC250V Y1                   | 2pF~4700pF       | GB/T14472-1998                                                     | CQC02001002287     |
|                            |                                                                                     | AC400V X1                   | 100pF~10000pF    |                                                                    | CQC02001002288     |
|                            |                                                                                     | AC250V Y2                   | 100pF~10000pF    |                                                                    | CQC02001002289     |
| 美国 UL<br>USA UL            |    | AC250V/400V Y1<br>AC400V X1 | 2pF~4700pF       | UL60384-14<br>CSA E60384-14:09                                     | E145038            |
|                            |                                                                                     | AC250V/300V Y2<br>AC400V X1 | 100pF~10000pF    |                                                                    |                    |
| 德国 VDE<br>Germany VDE      |  | AC250V/400V Y1              | 2pF~4700pF       | DIN EN60384-14;<br>EN60384-14;<br>IEC60384-14;                     | 135256             |
|                            |                                                                                     | AC250V Y2                   | 100pF~10000pF    |                                                                    |                    |
|                            |                                                                                     | AC400V X1                   | 100pF~10000pF    |                                                                    |                    |
| 加拿大 CSA<br>Canada          |  | AC400V X1<br>AC400V Y1      | 2pF~4700pF       | CAN/CSA-E60384-14                                                  | 2492570 (LR107420) |
|                            |                                                                                     | AC400V X1<br>AC250V Y2      | 100pF~10000pF    | CAN/CSA-E60384-14<br>ANSI/UL 60384-14                              | 2492571 (LR107420) |
| 韩国 KTL<br>Korea KTL        |  | AC250V Y1                   | 2pF~4700pF       | KC60384-1 (2014-09)<br>KC60384-14 (2014-09)<br>K60384-14 (2006-12) | SU03029-7001D      |
|                            |                                                                                     | AC400V X1                   | 100pF~10000pF    |                                                                    | SU03029-7002C      |
|                            |                                                                                     | AC250V Y2                   | 100pF~10000pF    |                                                                    | SU03029-7003C      |
| 挪威 NEMKO<br>Norway NEMKO   |  | AC250V/400V Y1<br>AC400V X1 | 2pF~4700pF       | EN60384-14: 2013                                                   | P16220678          |
| 瑞典 SEMKO<br>Sweden SEMKO   |  | AC250V/400V Y1<br>AC400V X1 | 2pF~4700pF       | EN60384-14: 2013                                                   | 1606405            |
| 芬兰 FIMKO<br>Finland FIMKO  |  | AC250V/400V Y1<br>AC400V X1 | 2pF~4700pF       | EN60384-14: 2013                                                   | 29430              |
| 丹麦 DEMKO<br>Denmark DEMKO  |  | AC250V/400V Y1<br>AC400V X1 | 2pF~4700pF       | EN60384-14: 2013                                                   | D-04994            |

□产品电压、材质、尺寸对照表(Product voltage, material, size reference table)

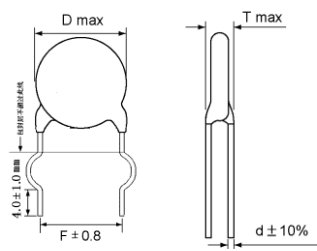
| 产品及尺寸<br>代码<br>Product and<br>size code | 额定交<br>流电压<br>Rated<br>AC<br>voltage | 温度特性 Temperature Characteristic |         |         | 尺寸 size      |              |          |       |
|-----------------------------------------|--------------------------------------|---------------------------------|---------|---------|--------------|--------------|----------|-------|
|                                         |                                      | 2B4                             | 2E4     | 2F4     | Dmax<br>(mm) | Tmax<br>(mm) | F(mm)    | d(mm) |
|                                         |                                      | 标称电容量 Rated Capacitance         |         |         |              |              |          |       |
| CT81-07                                 | 400VAC                               | 101~221                         | 471~681 | 102     | 7.5          | 6.0          | 10.0     | 0.56  |
| CT81-08                                 |                                      | 331~471                         | 102~152 | 152~222 | 8.5          | 6.0          | 10.0     | 0.56  |
| CT81-09                                 |                                      |                                 |         | 332     | 9.5          | 6.0          | 10.0     | 0.56  |
| CT81-10                                 |                                      | 681                             | 222     |         | 10.0         | 6.0          | 10.0     | 0.56  |
| CT81-11                                 |                                      |                                 |         | 472     | 11.0         | 6.0          | 10.0     | 0.56  |
| CT81-12                                 |                                      |                                 | 332     |         | 12.5         | 6.0          | 10.0     | 0.56  |
| CT81-13                                 |                                      |                                 |         |         | 13.0         | 6.0          | 10.0     | 0.56  |
| CT81-14                                 |                                      |                                 | 472     |         | 14.5         | 6.0          | 10.0     | 0.56  |
| CT81-06                                 | 250VAC                               | 101~331                         | 102     | 102     | 6.5          | 5.0          | 7.5/10.0 | 0.56  |
| CT81-08                                 |                                      | 471                             | 152     | 222~332 | 8.5          | 5.0          | 7.5/10.0 | 0.56  |
| CT81-09                                 |                                      |                                 | 222     |         | 9.5          | 5.0          | 7.5/10.0 | 0.56  |
| CT81-10                                 |                                      |                                 |         | 472     | 10.0         | 5.0          | 7.5/10.0 | 0.56  |
| CT81-11                                 |                                      |                                 | 332     |         | 11.0         | 5.0          | 7.5/10.0 | 0.56  |
| CT81-12                                 |                                      |                                 | 472     |         | 12.5         | 5.0          | 7.5/10.0 | 0.56  |
| CT81-13                                 |                                      |                                 |         | 103     | 13.0         | 5.0          | 10.0     | 0.56  |

□标记 (Marking)

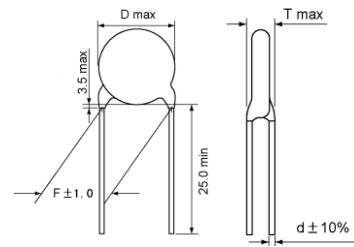
| 示例 (Example)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 项目 (Item)                                                                           |                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------|
|  <p>CT81.LY<br/>222M  <br/>250~400~<br/>  X1Y1</p> | CT81                                                                                | 种 类 (Class)                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 222                                                                                 | 标称容量 (Rated Capacitance)        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | M                                                                                   | 容量误差 (Tolerance of Capacitance) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LY                                                                                  | 公司代号 (Manufacturer's Code)      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | UL 认证标记 (UL Recognized Mark)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | CSA 认证标记 (CSA Monogram)         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | VDE 认证标记 (VDE Approval Mark)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | CQC 认证标记 (CQC Approval Mark)    |

□引线形式 Lead Shape

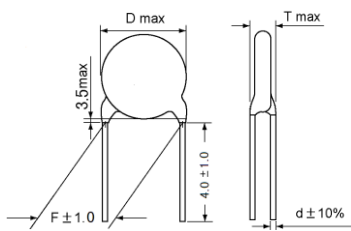
散件 (bulk): (单位: mm)



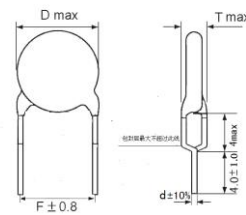
A 式  
Type A



b 式  
Type b



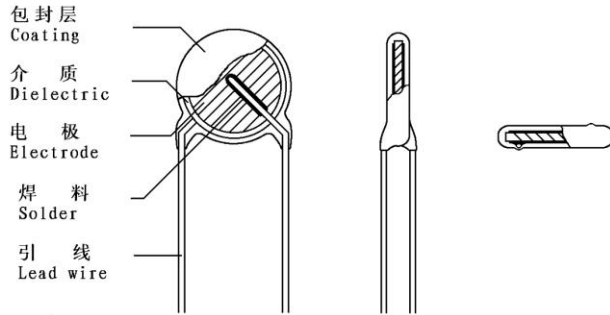
d 式  
Type d



e 式  
Type e

注: 引线长度根据客户要求 (Note: lead length according to customer requirements )

## □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)

$\text{SrCO}_3$   $\text{BaCO}_3$   $\text{TiO}_2$   $\text{Bi}_2\text{O}_3$   $\text{CaCO}_3$   $\text{Nb}_2\text{O}_5$   $\text{MgO}$

银膏(Silver paste) 环氧树脂(Epoxy Resin)

## □室内条件(Room Condition)

温度(Temp.):  $15\sim 35^\circ\text{C}$  湿度(R. H.):  $45\sim 75\%$

气压(Atm pressure):  $86\sim 106\text{kPa}$  ( $860\sim 1060\text{mbar}$ )

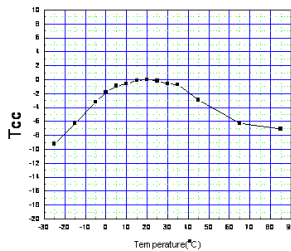
## □测试条件(Test Condition)

温度(Temp.):  $20\pm 2^\circ\text{C}$  湿度(R. H.):  $50\sim 60\%$

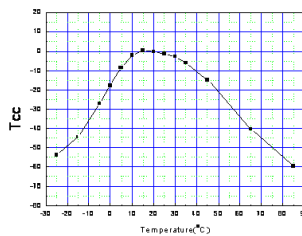
电压(Vol.):  $1.0\pm 0.2\text{Vrms}$  频率(Freq.):  $1\pm 0.2\text{KHz}$

## □容量—温度变化曲线 Cap.—Temp. Curve

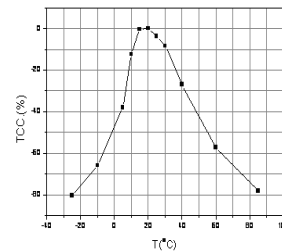
2B4



2E4



2F4



□命名方法 Part Code Designation

C T 8 1 - 4 0 0 V A C - 1 0 d - 2 E 4 - 2 2 2 M - Y A

①                      ②                      ③   ④                      ⑤                      ⑥   ⑦                      ⑧

①种类 Class

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

⑤温度特性 Temperature Characteristic

| 代码<br>Code | 容量变化<br>Cap. Change |
|------------|---------------------|
| 2B4        | -10~+10%            |
| 2E4        | -56~+22%            |
| 2F4        | -80~+30%            |

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. |
|------------|--------------------|------------|--------------------|
| 400VAC     | AC400V             |            |                    |
| 250VAC     | AC250V             |            |                    |
|            |                    |            |                    |
|            |                    |            |                    |

⑥标称容量 Rated Capacitance

| 代码<br>Code | 静电容量<br>Capacitance | 代码<br>Code | 静电容量<br>Capacitance |
|------------|---------------------|------------|---------------------|
| 221        | 220 pF              | 472        | 4700 pF             |
| 471        | 470 pF              |            |                     |
| 102        | 1000 pF             |            |                     |
| 222        | 2200 pF             |            |                     |
|            |                     |            |                     |

③主体外径 Body Diameter

| 代码<br>Code | 最大外径<br>Max Diameter<br>of Body | 代码<br>Code | 最大外径<br>Max Diameter<br>of Body |
|------------|---------------------------------|------------|---------------------------------|
| 06         | 6.5mm                           | 11         | 11.0mm                          |
| 07         | 7.5mm                           | 12         | 12.5mm                          |
| 08         | 8.5mm                           | 13         | 13.0mm                          |
| 09         | 9.5mm                           | 14         | 14.5mm                          |
| 10         | 10.0mm                          |            |                                 |

⑦容量允差 Tolerance

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

④引线形式 Lead Shape

| 代码<br>Code | 形式<br>Shape              |
|------------|--------------------------|
| A          | 单外弯 Single outside Crimp |
| b          | 直脚 Straight long         |
| d          | 短直脚 Straight Short       |
| e          | 前后弯 Vertical crimp       |
|            |                          |

⑧试验电压类别 Type of Test Voltage



| 代码<br>Code | 试验电压<br>Test Voltage |
|------------|----------------------|
| YA         | AC4000V              |
| YB         | AC2600V              |
|            |                      |
|            |                      |

□包装 (packing)

1、包装数量 (packing quantity):

| 成型方式<br>Molding mode | 袋装数量(支)<br>Quantity per bag (PCS) | 备注<br>Remark                                                    |
|----------------------|-----------------------------------|-----------------------------------------------------------------|
| A、d、b、e              | 1000 ± 1/500 ± 1                  | 塑料袋尺寸:<br>Size of plastic bag<br>1#: 275×200mm<br>2#: 215×160mm |

2、包装标识 (packing marking):

| 示例(Example)                                                                        | 项 目 ( Item )                                                                      |                                                    |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------|
|  |  | 公司商标 (Manufacturer's Marking)                      |
|                                                                                    | 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                                  |
|                                                                                    | 生产日期<br>Productive date                                                           | 产品生产时间 the produce time of the product             |
|                                                                                    | 数 量<br>Quantity                                                                   | 每袋的包装数量<br>the packing quantity per plastic bag    |

3、外包装 (over-wrap packing):

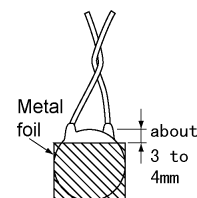
内包装箱 (internal packing boxes) (A1:360×200×140mm、A2:198×177×138mm)

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

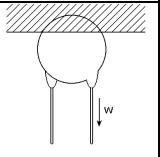
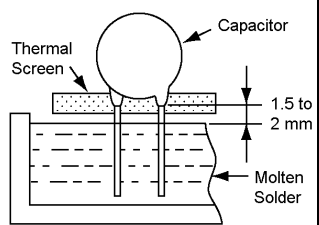
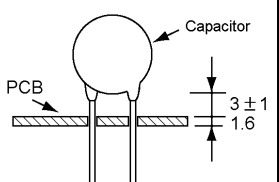
装箱数量应为 100、500 的整数倍。(The packing quantity should be integral multiple of one-hundred or five-hundred. )

□规格及试验方法 Specification and Test Method

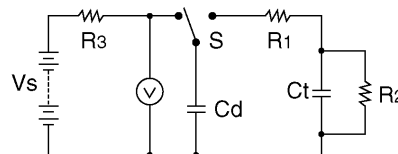
| 项 目<br>ITEM                             |                           | 规 格<br>SPECIFICATION                                                                                                                                  | 试 验 方 法 及 条 件<br>TEST METHOD AND CONDITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |       |   |   |   |   |            |       |        |       |       |       |
|-----------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------|---|---|---|---|------------|-------|--------|-------|-------|-------|
| 1. 存储温度范围<br>Storage Temp. Range        |                           | -40℃~+125℃                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |       |   |   |   |   |            |       |        |       |       |       |
| 2. 使用温度范围<br>Operating Temp. Range      |                           | -25℃~+125℃                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |       |   |   |   |   |            |       |        |       |       |       |
| 3. 外观尺寸<br>Appearance and Dimension     |                           | 外观无可见损伤<br>尺寸在规格内<br>Appearance has no marked defect.<br>Dimensions shall be within specified tolerance.                                              | 外观用目视法观测<br>尺寸用游标卡尺测量<br>Appearance be watched on sight<br>Dimension be measured by caliper                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |       |   |   |   |   |            |       |        |       |       |       |
| 4. 标识<br>Mark                           |                           | 应清晰可见<br>Should be discerned easily.                                                                                                                  | 用目视法观测<br>Be watched on sight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |       |   |   |   |   |            |       |        |       |       |       |
| 5. 静电容量<br>Capacitance                  |                           | 在规格范围内<br>Within specified tolerance                                                                                                                  | 温度 Temp. 20±2℃<br>电压 Vol. 1.0±0.2Vrms<br>频率 Freq. 1±0.1KHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |       |   |   |   |   |            |       |        |       |       |       |
| 6. 损耗因数<br>Dissipation Factor           |                           | B, E: 2.5% max<br>F: 3.5% max                                                                                                                         | 同上<br>Same condition as capacitance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |       |   |   |   |   |            |       |        |       |       |       |
| 7. 绝缘电阻<br>Insulation Resistance        |                           | 大于 10,000MΩ<br>10,000MΩmin                                                                                                                            | 500±50V. DC 的电压充电一分钟。<br>The insulation Resistance shall be measured with 500±50V. DC within 60±5 sec of charging.                                                                                                                                                                                                                                                                                                                                                                                                                           |           |       |   |   |   |   |            |       |        |       |       |       |
| 8. 耐电压<br>Dielectric Strength           | 端子间<br>Between Lead Wires | 无不良<br>No failure.                                                                                                                                    | 施加 4.0KVAC 电压 1 分钟 (充放电电流≤50mA) (YB:2.6KVAC)<br>Apply a voltage of 4.0KVAC for 1 min. between the lead wires. (Charge/discharge current≤50mA) (YB:2.6KVAC)                                                                                                                                                                                                                                                                                                                                                                                   |           |       |   |   |   |   |            |       |        |       |       |       |
|                                         | 端子与外壳间<br>Body Insulation | 无不良<br>No failure.                                                                                                                                    | 将电容器的引线连在一起, 主体外紧包一金属箔, 边缘距引线约 3-4mm, 施加 4.0KVAC 的电压于电容器的引线和金属箔之间。<br>(充放电电流≤50mA) (YB:2.6KVAC)<br>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 4.0KVAC is applied between the capacitor lead wires and metal foil. (YB:2.6KVAC) (Charge/discharge current <50mA)                                                                                                                   |           |       |   |   |   |   |            |       |        |       |       |       |
| 9. 容量温度特性<br>Temperature Characteristic |                           | B: -10~+10%<br>E: -56~+22%<br>F: -80~+30%                                                                                                             | <p>静电容量测试须依下列顺序进行。<br/>预处理: 在 85±2℃ 下放置 1 小时后取出, 在室内条件下放置 24±2 小时。<br/>The capacitance shall be measured at each step as following. Pre-treatment: Capacitor shall be stored at 85±2℃ for 1 hour, then placed at room condition for 24±2hours before initial measurements.</p> <table border="1"> <thead> <tr> <th>步骤 (Step)</th> <th>①</th> <th>②</th> <th>③</th> <th>④</th> <th>⑤</th> </tr> </thead> <tbody> <tr> <td>温度 (Temp.)</td> <td>20±2℃</td> <td>-25±2℃</td> <td>20±2℃</td> <td>85±2℃</td> <td>20±2℃</td> </tr> </tbody> </table> | 步骤 (Step) | ①     | ② | ③ | ④ | ⑤ | 温度 (Temp.) | 20±2℃ | -25±2℃ | 20±2℃ | 85±2℃ | 20±2℃ |
| 步骤 (Step)                               | ①                         | ②                                                                                                                                                     | ③                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ④         | ⑤     |   |   |   |   |            |       |        |       |       |       |
| 温度 (Temp.)                              | 20±2℃                     | -25±2℃                                                                                                                                                | 20±2℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 85±2℃     | 20±2℃ |   |   |   |   |            |       |        |       |       |       |
| 10. 阻燃试验 Flame Test                     |                           | 第一至第二次循环不会产生 30 秒以上的燃烧现象, 第三次时不会产生 60 秒以上的燃烧现象。<br>The capacitor flame shall be discontinued not more than 30sat cycle 1 to 2 and 60 sec. At cycle 3. | 将电容器放入直径 9.5mm, 高度 19mm 的火焰中烤 15 秒后取出, 在空气中停留 15 秒后再放入火焰中进行三次循环。<br>The capacitor should be put into the flame with diameter 9.5mm and height 19mm for 15 sec. and then removed for 15 sec. In air until 3 cycles.                                                                                                                                                                                                                                                                                                                           |           |       |   |   |   |   |            |       |        |       |       |       |





| 项 目<br>ITEM                                                 | 规 格<br>SPECIFICATION                                                                                                                   |                                                                                   | 试 验 方 法 及 条 件<br>TEST METHOD AND CONDITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11. 易焊性<br>Solder ability of lead wires                     | 导线上沾锡面积大于 90%。<br>Lead wire shall be soldered with uniformly coated on the axial direction over 90% of the circumferential direction . |                                                                                   | 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。<br>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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 12. 端子强度<br>Strength of Lead Wires<br>(c 式不做此项 Type c none) | 抗拉强度<br>Pull                                                                                                                           | 导线不断裂<br>电容器不破损<br>Lead wire shall not cut off and capacitor shall not be damaged | 把制品固定, 在端子引出方向施加负荷 10N 保持 10±1 秒。<br>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 ±1sec.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                             | 弯曲强度<br>Bending                                                                                                                        |                                                                                   | 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。<br>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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 13. 耐焊接热<br>Soldering Effect                                | 外观<br>Appearance                                                                                                                       | 无显著异常<br>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。<br>试验前: 电容器应放置在 125±2℃ 的温度下 1 小时, 然后在常温下恢复 24±2 小时后测试。<br>试验后: 室内条件下恢复 24±2 小时。<br>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.<br>Pre-treatment: The capacitor shall be placed at 125±2℃ for 1 hour, then placed at room condition for 24±2 hours before initial measurement.<br>Post-treatment: Capacitor shall be stored for 24±2 hours at room condition.                                                                                                                                                                                                                 |
|                                                             | 容量变化<br>Capacitance Change                                                                                                             | B: ±10% max<br>E: ±20% max<br>F: ±20% max                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                             | 抗电强度<br>Dielectric Strength                                                                                                            | 按第八条。<br>Per Item 8.                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 14. 耐振性<br>Vibration Resistance                             | 外观<br>Appearance                                                                                                                       | 无显著异常<br>No marked defect                                                         | 电容器须焊锡固定好, 固定点距电容器主体 3±1.0mm, 并经 10Hz→500Hz 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(各 2 小时)。<br>试验前: 电容器应放置在 125±2℃ 的温度下 1 小时, 然后在常温下恢复 24±2 小时 后测试。<br>试验后: 在室内条件下恢复 24±2 小时测试。<br>The capacitor shall firmly be soldered to the supporting lead wires 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 mutually perpendicular directions.<br>pre-treatment: The capacitor shall be placed at 125±2℃ for 1 hour, then placed at room condition for 24±2 hours before initial measurement.<br>Post-treatment: Capacitor shall be stored for 24±2 hours at room conditions.  |
|                                                             | 容量变化<br>Capacitance Change                                                                                                             | B: ±10% max<br>E: ±15% max<br>F: ±20% max                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 15. 湿热循环<br>Humidity Cycling                                | 外观<br>Appearance                                                                                                                       | 无显著异常<br>No marked defect                                                         | 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。<br>试验后: 在室内条件下恢复 1 至 2 小时。<br>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.<br>Post-treatment: The capacitor shall be stored for 1 to 2 hours at room condition.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                             | 容量变化<br>Capacitance Change                                                                                                             | B: ±10% max<br>E: ±20% max<br>F: ±30% max                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                             | 损耗因数<br>D.F.                                                                                                                           | B, E: 5.0% max<br>F: 7.0% max                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                             | 绝缘电阻<br>I. R.                                                                                                                          | 1500MΩ min                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                             | 抗电强度<br>Dielectric Strength                                                                                                            | 按第八条。<br>Per Item 8.                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| 项 目<br>ITEM                                       | 规 格<br>SPECIFICATION           |                                                             | 试 验 方 法 及 条 件<br>TEST METHOD AND CONDITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           |                          |                           |                          |
|---------------------------------------------------|--------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------|---------------------------|--------------------------|
| 16. 碰撞试验<br>Collision<br>Resistance               | 外观<br>Appearance               | 无显著异常<br>No marked<br>defect                                | 电容器须焊锡固定好,固定点距电容器主体 $3 \pm 1.0$ mm,并施加一加速度为 $390\text{m/s}^2$ ,脉冲时间为 6ms 的碰撞,次数为 4000 次。<br>试验前: 电容器应放置在 $125 \pm 2^\circ\text{C}$ 的温度下 1 小时,然后在常温下恢复 $24 \pm 2$ 小时后测试。<br>试验后: 在室内条件下恢复 $24 \pm 2$ 小时测试。<br>The capacitor shall firmly be soldered to the supporting lead wire about $3 \pm 1.0$ mm from the body of the capacitor and a collision which is $390\text{m/s}^2$ in the acceleration, 6ms in the pulse cycle for 4000 times.<br>pre-treatment: The capacitor shall be placed at $125 \pm 2^\circ\text{C}$ for 1 hour, then placed at room condition for $24 \pm 2$ hours before initial measurement.<br>Post-treatment: Capacitor shall be stored for $24 \pm 2$ hours at room conditions |                           |                          |                           |                          |
|                                                   | 容量变化<br>Capacitance<br>Change  | B: $\pm 10\%$ max<br>E: $\pm 15\%$ max<br>F: $\pm 20\%$ max |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |                          |                           |                          |
|                                                   | 损耗因数<br>D.F.                   | B, E: 2.5% max<br>F: 3.5% max                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |                          |                           |                          |
| 17. 温度循环<br>Temp<br>Cycling                       | 外观<br>Appearance               | 无显著异常<br>No marked<br>defect                                | 将电容器放入高低温箱,按下列步骤循环 5 次。<br>试验前: 在 $125 \pm 2^\circ\text{C}$ 温度下放置 1 小时,在常温下恢复 $24 \pm 2$ 小时后测试。<br>试验后: 在室内条件下恢复 $24 \pm 2$ 小时测试。<br>The capacitor shall be introduced into the test chamber, and shall be exposed to the temperature conditions as shown in table at 5 cycles.<br>pretreatment: The capacitor shall be placed at $125 \pm 2^\circ\text{C}$ for 1 hour, then placed at room condition for $24 \pm 2$ hours before initial measurement.<br>Post-treatment: Capacitor shall be stored for $24 \pm 2$ hours at room conditions.                                                                                                                                                            |                           |                          |                           |                          |
|                                                   | 容量变化<br>Capacitance<br>Change  | B: $\pm 10\%$ max<br>E: $\pm 20\%$ max<br>F: $\pm 30\%$ max |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |                          |                           |                          |
|                                                   | 损耗因数<br>D.F.                   | B, E: 5.0% max<br>F: 7.0% max                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |                          |                           |                          |
|                                                   | 绝缘电阻<br>I.R.                   | $1000\text{M}\Omega$ min                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |                          |                           |                          |
|                                                   |                                |                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 步骤(STEP)                  | 1                        | 2                         | 3                        |
|                                                   |                                |                                                             | 温度(TEMP.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | $-25 \pm 3^\circ\text{C}$ | $20 \pm 2^\circ\text{C}$ | $125 \pm 3^\circ\text{C}$ | $20 \pm 2^\circ\text{C}$ |
|                                                   |                                |                                                             | 时间(TIME)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $30 \pm 3\text{min.}$     | 3min. max                | $30 \pm 3\text{min.}$     | 3min. max                |
| 18. 耐湿性<br>Humidity<br>(Under<br>Steady<br>State) | 外观<br>Appearance               | 无显著异常<br>No marked<br>defect                                | 电容器在温度 $40 \pm 2^\circ\text{C}$ , 湿度 $95 \pm 3\% \text{RH}$ 下放置 $500 \pm 12$ 小时。<br>试验前: 电容器应放置在 $125 \pm 2^\circ\text{C}$ 的温度下 1 小时,然后在常温下恢复 $24 \pm 2$ 小时后测试。<br>试验后: 在室内条件下恢复 $24 \pm 2$ 小时。<br>Set the capacitor for $500 \pm 12$ hours at $40 \pm 2^\circ\text{C}$ in $95 \pm 3\% \text{RH}$ .<br>pre-treatment: The capacitor shall be placed at $125 \pm 2^\circ\text{C}$ for 1 hour, then placed at room condition for $24 \pm 2$ hours before initial measurement.<br>Post-treatment: The capacitor shall be stored for $24 \pm 2$ hours at room condition.                                                                                                                                    |                           |                          |                           |                          |
|                                                   | 容量变化<br>Capacitance<br>Change  | B: $\pm 10\%$ max<br>E: $\pm 20\%$ max<br>F: $\pm 30\%$ max |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |                          |                           |                          |
|                                                   | 损耗因数<br>D.F.                   | B, E: 5.0% max<br>F: 7.0% max                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |                          |                           |                          |
|                                                   | 绝缘电阻<br>I.R.                   | $1500\text{M}\Omega$ min                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |                          |                           |                          |
|                                                   | 抗电强度<br>Dielectric<br>Strength | 按第八条。<br>Per Item 8                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |                          |                           |                          |
| 19. 寿命试验<br>Life Test                             | 外观<br>Appearance               | 无显著异常<br>No marked<br>defect                                | 在 $125 \pm 2^\circ\text{C}$ 下放置 $1000 \pm 48$ 小时,并施加 500VAC,每小时升高到 1000V.AC 持续 0.1 秒。<br>试验前: 在 $125 \pm 2^\circ\text{C}$ 放置 1 小时,在室内条件下恢复 $24 \pm 2$ 小时。<br>试验后: 在室内条件下恢复 $24 \pm 2$ 小时。<br>Apply a voltage of 500V.AC, except that once each hour the voltage is increased to 1000V.AC for 0.1sec. that shall be maintained for $1000 \pm 48$ hours at $125 \pm 2^\circ\text{C}$ .<br>Pre-treatment: Capacitor shall be stored at $125 \pm 2^\circ\text{C}$ for 1 hour, then placed at room condition for $24 \pm 2$ hours before initial measurements.<br>Post-treatment: Capacitor shall be stored for $24 \pm 2$ hours at room condition.                                                          |                           |                          |                           |                          |
|                                                   | 容量变化<br>Capacitance<br>Change  | B: $\pm 10\%$ max<br>E: $\pm 20\%$ max<br>F: $\pm 30\%$ max |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |                          |                           |                          |
|                                                   | 损耗因数<br>D.F.                   | B, E: 5.0% max<br>F: 7.0% max                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |                          |                           |                          |
|                                                   | 绝缘电阻<br>I.R.                   | $1500\text{M}\Omega$ min                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |                          |                           |                          |
| 20. 放电试验<br>Discharge<br>Test                     | 外观<br>Appearance               | 无显著异常<br>No marked<br>defect                                | 如图,由 Cd 经 Vs 充电后向被测电容 Ct 放电,充放电时间均为 5 秒,一共 50 次。<br>As in figure, discharge is made 50 times at 5 sec. intervals from the capacitor (Cd) charged at DC voltage of specified.<br>Ct: 被测电容 Capacitor under test<br>S: 高压开关<br>High-voltage switch<br>R1: $1000\Omega$ R2: $4\text{M}\Omega$<br>R3: 浪涌电阻<br>Surge resistance<br>Cd: $1\text{nF}$ Vs: $10\text{KVDC}$                                                                                                                                                                                                                                                                                                                                       |                           |                          |                           |                          |
|                                                   | 绝缘电阻<br>I.R.                   | 大于 $1000\text{M}\Omega$<br>$1000\text{M}\Omega$ min         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |                          |                           |                          |
|                                                   | 抗电强度<br>Dielectric<br>Strength | 按第八条。<br>Per Item 8                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |                          |                           |                          |



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