

NO:TH-21549

# 承认申请书

APPLICATION FOR APPROVAL

产品符合欧盟 RoHS 环保要求

CUSTOMER:

PART NAME:

瓷介电容器

DRAUGHT BY:

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Sep. 02, 2021

| APPROVAL | FIELD |
|----------|-------|
|          |       |

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沂南同皓电子元件有限公司

YINAN DON'S ELECTRONIC COMPONENT., CO., LTD.

## 瓷介电容器

## Ceramic Capacitors

### □用途

该产品主要用于彩电、计算机显示器、复印机、电子仪器等的高频谐振回路中作温度补偿等。

### □Application

Using for high frequency resonance circuit of colour TV and monitor, copy machine, electronic equipment.

### □外观及结构(Appearance and Structure)

| 编 码<br>CODE | 品 名<br>CODE NO.          | Dmax (mm) | Tmax (mm) | F (mm) | d(mm) |
|-------------|--------------------------|-----------|-----------|--------|-------|
|             | CC81-1KV-06a-SL-22K-T    | 6.5       | 4.0       | 5.0    | 0.55  |
|             | CC81-1KV-06e-SL-22J-1T1  | 6.5       | 4.0       | 5.0    | 0.55  |
|             | CC81-1KV-08e-SL-221J-1T1 | 8.5       | 4.0       | 5.0    | 0.55  |
|             | CC81-1KV-11e-SL-471J-1T1 | 11.5      | 4.0       | 5.0    | 0.55  |
|             | CC81-3KV-06b-SL-22J-2T3  | 6.5       | 6.0       | 7.5    | 0.55  |
|             | CC81-3KV-06b-SL-15J-2T3  | 6.5       | 6.0       | 7.5    | 0.55  |
|             |                          |           |           |        |       |

### □标识方法(Marking)

|  |                                   |
|--|-----------------------------------|
|  | 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   |
|  | ⑥ 生产日期 Production Date            |

说明：生产日期第一位表示制作年度，标示方法参照年度对照表；第二位表示制作月份，第三位表示具体制作日期，标示方法参照 34 进制对比表；例如：生产日期 8B6 表示：8:18 年 B:11 月，6:6 日

(Production date first said the annual, marking methods according to annual comparison table; second said production month, third said the specific production date marking method of comparison, table 34 hexadecimal; Example: Production date 8B6 show: 8:2018year B: november 6: the 6 day ):

年度对比表：

|     |      |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|------|
| 年 度 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| 年代碼 | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
| 年 度 | 2020 | 2021 | 2022 | 2023 | 2024 | 以此类推 |      |
| 年代碼 | 0    | 1    | 2    | 3    | 4    |      |      |

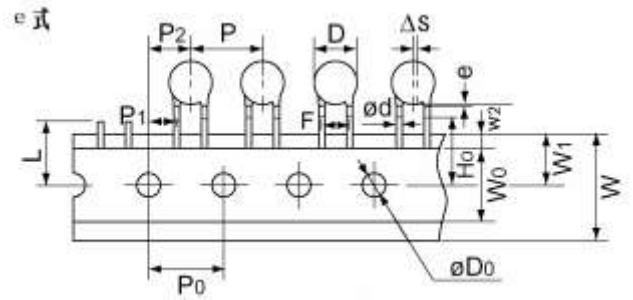
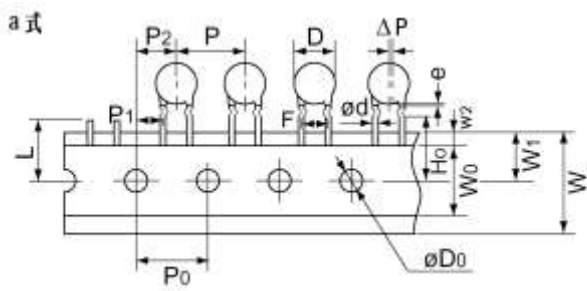
34 进制对比表：

|       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 34 进制 | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | A  | B  | C  | D  | E  | F  | H  |
| 10 进制 | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 34 进制 | J  | K  | L  | M  | N  | P  | Q  | R  | S  | T  | V  | W  | X  | Y  | Z  |    |    |
| 10 进制 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |    |    |

□ 编带资料

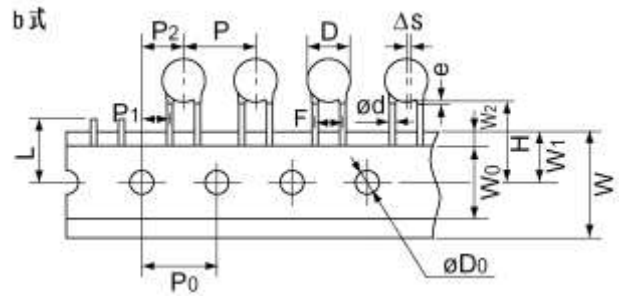
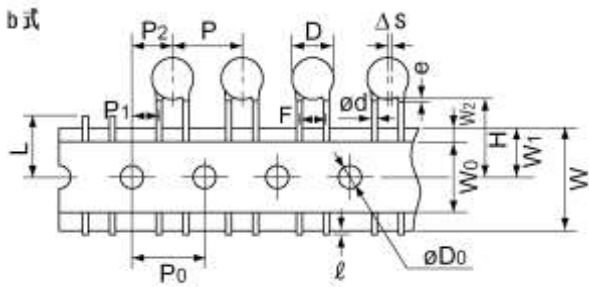
- a, e 式 (引线间距  $F=5.0\text{mm}$ , 产品间距  $P=P_0=12.7\text{mm}$ )

Type a, e (lead spacing  $F=5.0\text{mm}$ , Product spacing  $P=P_0=12.7\text{mm}$ )

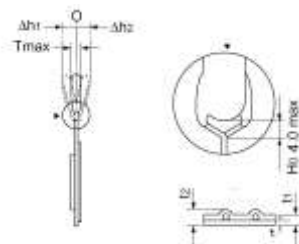
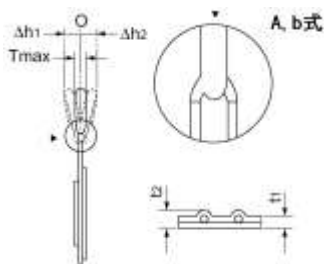


- b 式 (引线间距  $F=7.5\text{mm}$ , 产品间距  $P=P_0=15.0\text{mm}$ )

Type b (lead spacing  $F=7.5\text{mm}$ , Product spacing  $P=P_0=15.0\text{mm}$ )

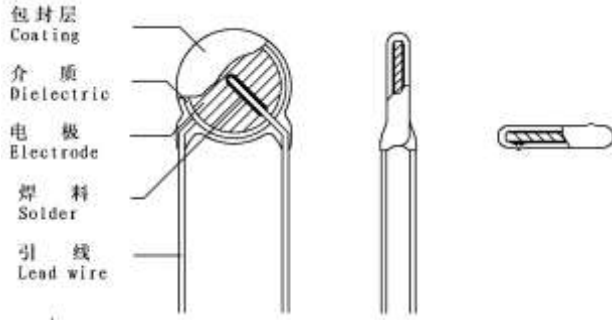


注：左侧编带图为一次编带，右侧编带图为二次编带 (left banding diagram is primary banding ;right banding diagram is secondary banding.)



| 项目 Item   | 代号 Code               | Dimensions (mm)                              |                |
|---|-----------------------|--|----------------|
|   |                       | Type b                                       | Type a, e      |
| 引线间距 Lead spacing   | F                     | $7.5 \pm 1.0$                                | $5.0 \pm 0.6$  |
| 产品间距 Pitch of component   | P                     | $15.0 \pm 1.0$                               | $12.7 \pm 0.5$ |
| 传送孔间距 Pitch of sprocket hole                                      | P0                    | $15.0 \pm 0.3$                               | $12.7 \pm 0.3$ |
| 传送孔位置偏差<br>Position of sprocket hole                              | P1                    | $3.75 \pm 0.7$                               | $3.85 \pm 0.7$ |
|   | P2                    | $7.5 \pm 1.3$                                | $6.35 \pm 1.3$ |
| 引线线径 Lead diameter  | d                     | $0.55 \pm 0.055$                             |                |
| 产品倾倒 Deviation across tape  | $\Delta h$            | $0 \pm 2.0_{\max}$                           |                |
| 纸带宽度 Carrier tape width   | W                     | $18.0 \pm 0.5$                               |                |
| 胶带宽度 Hold-down tape width   | W0                    | $6.0_{\min}$                                 |                |
| 传送孔位置偏差 Position of sprocket hole                                 | W1                    | $9.0 \pm 0.5$                                |                |
| 胶带偏差 Hold-down tape distortion                                    | W2                    | $1.5 \pm 1.5$                                |                |
| 产品至纸带中心位置<br>Lead distance between reference<br>and bottom planes | H                     | $20 \pm 2$                                   |                |
| 引线弯处到传送孔中心<br>Lead distance between reference<br>And kink lead    | H0                    | $16.0 - 0.5 / +1.0$                          |                |
| 传送孔孔径 Diameter of sprocket hole                                   | D0                    | $4.0 \pm 0.2$                                |                |
| 不良切断位置 Portion to cut   | L                     | $11.0 + 0 / -1.0$                            |                |
| 封装料垂延 Coating extension on lead                                   | e                     | Type b: $3.5_{\max}$                         |                |
|   |                       | Type a, e: 不过弯中央 No over the center of crimp |                |
| 纸带厚度 thickness of tape  | t1                    | $0.5 \pm 0.3$                                |                |
|   | t2                    | $1.5_{\max}$                                 |                |
| 引线弹性弯曲 Lead flexible blend  | $\Delta S (\Delta P)$ | $0 \pm 2.0$                                  |                |
| 引线尾端长度 Lead the end of length                                     | $l$                   | $1.0_{\max}$                                 |                |

□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<sub>3</sub> BaCO<sub>3</sub> TiO<sub>2</sub> Bi<sub>2</sub>O<sub>3</sub> CaCO<sub>3</sub> Nb<sub>2</sub>O<sub>5</sub> MgO  
 银膏(Silver paste) 环氧树脂(Epoxy Resin)

□室内条件(Room Condition)

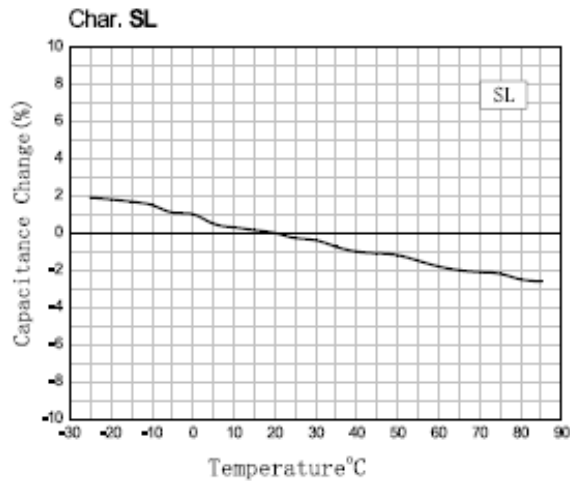
温度(Temp.): 15~35℃ 相对湿度(R. H.): 45~75%  
 气压(Atm pressure): 86~106kPa (860~1060mbar)

□测试条件(Test Condition)

温度(Temp.): 常规测试 (Routine test): 15~35℃,  
 有疑义时测试 (Test in case of disagreement): 20±2℃  
 相对湿度(R. H.): 45~75%  
 电压(Vol.): 1.0±0.2Vrms 频率(Freq.): 1±0.2MHz

□容量—温度变化曲线 Cap.—Temp. Curve

SL



## □型号命名方法 Part Code Designation

CC81—1KV—06 e—SL—22 J—1 T1  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

### ①种类 Class

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

### 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. |
|------------|--------------------|------------|--------------------|
| 1KV        | 1000V.DC           |            |                    |
| 3KV        | 3000V.DC           |            |                    |
|            |                    |            |                    |

### 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                          |
| 08         | 8.5mm                           |            |                                 |

### ④引线形式 Lead Shape

| 代码<br>Code | 形式<br>Shape             |
|------------|-------------------------|
| a          | 单内弯 Single inside Crimp |
| e          | 前后弯 Vertical crimp      |
| b          | 直脚 Straight             |

### ⑤温度特性 Temperature Characteristic

| 代码<br>Code | 容量变化<br>Cap. Change |
|------------|---------------------|
| SL         | +350~-1000ppm/°C    |
|            |                     |

### 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 |
|----------------|---------------------|------------|---------------------|
| 22             | 22pF                | 471        | 470pF               |
|                |                     |            |                     |
| 以此类推 And so on |                     |            |                     |

### ⑦容量允差 Tolerance

| 代码<br>Code | 容量允差<br>Tolerance |
|------------|-------------------|
| J          | ±5%               |
| K          | ±10%              |

### ⑧引线间距 Lead spacing

| 代码<br>Code | 间距<br>spacing |
|------------|---------------|
| 1          | 5.0mm         |
| 2          | 7.5mm         |
| 3          | 10.0mm        |

### ⑨包装方式 package Shape

| 代码<br>Code | 形式<br>Shape        |
|------------|--------------------|
| T1         | P0=12.7mm P=12.7mm |
| T2         | P0=12.7mm P=25.4mm |
| T3         | P0=15.0mm P=15.0mm |

□ 编带包装 (Taping Package packing)

1、包装数量 (packing quantity):

| 引线间距<br>Lead spacing | 包装盒分类<br>Kinds of plastic box | 成型方式<br>Molding mode | 包装数量<br>Quantity per bag | 备注<br>Remark  |
|----------------------|-------------------------------|----------------------|--------------------------|---|
| F=5.0mm              | 1# 2#                         | a,e                  | 2000                     | 包装盒尺寸:<br>Size of plastic box<br>1#: 336×240×45mm<br>2#: 336×290×48mm |
| F=7.5mm              | 1# 2#                         | b                    | 1000~2000                |   |

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    |

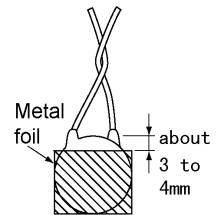
3、外包装 (over-wrap packing):

外包装箱 (over-wrap boxes) (B1:520×370×280mm、B2:358×312×275mm)

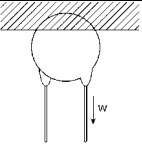
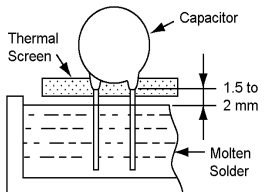
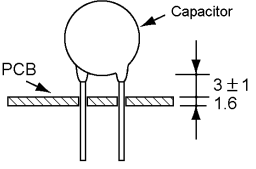
装箱数量应为最小包装的整数倍。(The packing quantity should be integral multiple of minimal packaging. )

□规格及试验方法 Specification and Test Method

| 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℃~+ 85℃   |   |           |   |   |   |            |
| 2. 使用温度范围<br>Operating Temp. Range  |                           | -25℃~+ 85℃   |   |           |   |   |   |            |
| 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±0.1MHz  |           |   |   |   |            |
| 6. 损耗因数<br>Dissipation Factor       |                           | 0.15% 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.   | 端子间施加 200%的额定电压一分钟。(3KV:150%+500V) (充放电电流<50mA)<br>Apply a DC voltage of 200% of the rated voltage for 1 min. (Charge/discharge current<50mA) (3KV:150%+500V)   |           |   |   |   |            |
|                                     | 端子与外壳间<br>Body Insulation | 无不良<br>No failure.   | 如图, 将电容器的引线连在一起, 主体外紧包一层金属箔, 边沿距引线 3-4mm, 在电容器引线和金属箔间施加 200%的额定电压一分钟。(充放电电流<50mA) (3KV:150%+500V)<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 200% of the rated is applied between the capacitor lead wires and the metal balls for 1 min. (Charge/discharge current<50mA) (3KV:150%+500V) |           |   |   |   |            |
| 9. 温度特性<br>Temp. Char.              | Ct-C3<br>C3               | +350~-1000ppm/℃  | 静电容量测试须依下列顺序测试。<br>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。<br>The capacitance measurement shall be made at each step specified as following. Capacitance change from the volume of step 1 shall not exceed the limit specified.<br>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.  |           |   |   |   |            |
|                                     |                           |  | <table border="1"> <tr> <td>步骤 (Step)</td> <td>①</td> <td>②</td> <td>③</td> </tr> <tr> <td>温度 (Temp.)</td> <td>20±2℃</td> <td>85±2℃</td> <td>20±2℃</td> </tr> </table>  | 步骤 (Step) | ① | ② | ③ | 温度 (Temp.) |
| 步骤 (Step)                           | ①                         | ②  | ③   |           |   |   |   |            |
| 温度 (Temp.)                          | 20±2℃                     | 85±2℃  | 20±2℃   |           |   |   |   |            |





| 项 目<br>ITEM  | 规 格<br>SPECIFICATION  |  | 试 验 方 法 及 条 件<br>TEST METHOD AND CONDITION   |           |          |   |   |   |   |           |        |       |       |       |          |          |           |          |           |
|--|---|--|--|-----------|----------|---|---|---|---|-----------|--------|-------|-------|-------|----------|----------|-----------|----------|-----------|
| 10. 端子强度<br>Strength of<br>Lead Wires<br>(c 式不做此<br>项 Type c<br>none)  | 抗拉强度<br>Pull  | 导线不断裂<br>电容器不破损<br>Lead wire<br>shall not cut<br>off and<br>capacitor<br>shall not be<br>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.<br>   |           |          |   |   |   |   |           |        |       |       |       |          |          |           |          |           |
|  | 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.  |           |          |   |   |   |   |           |        |       |       |       |          |          |           |          |           |
| 11. 耐焊接热<br>Soldering<br>Effect  | 外观<br>Appearance  | 无显著异常<br>No marked<br>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 85±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。  |           |          |   |   |   |   |           |        |       |       |       |          |          |           |          |           |
|  | 容量变化<br>Capacitance<br>Change   | SL:±2.5% max<br>or 1pF, 取较<br>大者<br>Whichever is<br>large.                                       | 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 85±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.<br>  |           |          |   |   |   |   |           |        |       |       |       |          |          |           |          |           |
| 12. 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: 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。<br>试验后: 在室内条件下恢复 24±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.   |           |          |   |   |   |   |           |        |       |       |       |          |          |           |          |           |
|  | 容量变化<br>Capacitance<br>Change   | SL:±5.0% max<br>Or 1pF, 取较<br>大者<br>Whichever is<br>large.                                       | 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.<br>Post-treatment: Capacitor shall be stored for 24±2 hours at room conditions.   |           |          |   |   |   |   |           |        |       |       |       |          |          |           |          |           |
| <table border="1"> <thead> <tr> <th>步骤(STEP)</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>温度(TEMP.)</td> <td>-25±3℃</td> <td>20±2℃</td> <td>85±3℃</td> <td>20±2℃</td> </tr> <tr> <td>时间(TIME)</td> <td>30±3min.</td> <td>3min. max</td> <td>30±3min.</td> <td>3min. max</td> </tr> </tbody> </table> |   |  |  |           | 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 |
| 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<br>Vibration<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±1.0mm, 并施加一加速度为 390m/s <sup>2</sup> , 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 85±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。  |           |          |   |   |   |   |           |        |       |       |       |          |          |           |          |           |
|  | 容量变化<br>Capacitance<br>Change   | SL:±2.5% max<br>or 1pF,<br>取较大者<br>Whichever is<br>large.  | The capacitor shall firmly be soldered to the supporting lead wire about 3±1.0 mm from the body of the capacitor and a collision which is 390m/s <sup>2</sup> in the acceleration, 6ms in the pulse cycle for 4000 times.<br>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.<br>Post-treatment: Capacitor shall be stored for 24±2 hours at room conditions.<br> |           |          |   |   |   |   |           |        |       |       |       |          |          |           |          |           |
| 14. 易焊性<br>Solder<br>ability of<br>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.  |           |          |   |   |   |   |           |        |       |       |       |          |          |           |          |           |

| 项目<br>ITEM                                  | 规格<br>SPECIFICATION        |   | 试验方法及条件<br>TEST METHOD AND CONDITION   |
|---|----------------------------|---|--|
| 15. 碰撞试验<br>Collision<br>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 $3 \pm 1.0\text{mm}$ , 并施加一加速度为 $390\text{m/s}^2$ , 脉冲时间为 $6\text{ms}$ 的碰撞, 次数为 4000 次。<br>试验前: 电容器应放置在 $85 \pm 2^\circ\text{C}$ 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 $3 \pm 1.0\text{mm}$ from the body of the capacitor and a collision which is $390\text{m/s}^2$ in the acceleration, $6\text{ms}$ in the pulse cycle for 4000 times.<br>pre-treatment: The capacitor shall be placed at $85 \pm 2^\circ\text{C}$ 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 Change | SL: $\pm 2.5\%$ max or $1\text{pF}$ , 取较大者<br>Whichever is large. |  |
| 16. 湿热循环<br>Humidity<br>Cycling             | 外观<br>Appearance           | 无显著异常<br>No marked defect   | 电容器在温度 $40 \pm 2^\circ\text{C}$ , 湿度 $95 \pm 3\% \text{RH}$ 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 $40 \pm 2^\circ\text{C}$ in $95 \pm 3\% \text{RH}$ , 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 | SL: $\pm 3\%$ max or $1\text{pF}$ , 取较大者<br>Whichever is large    |  |
|   | 损耗因数<br>D. F.              | 0.30% max   |  |
|   | 绝缘电阻<br>I. R.              | 大于 $2500\text{M}\Omega$<br>$2500\text{M}\Omega\text{min}$         |  |
| 17. 耐湿性<br>Humidity<br>(Under Steady State) | 外观<br>Appearance           | 无显著异常<br>No marked 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 $85 \pm 2^\circ\text{C}$ 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 $85 \pm 2^\circ\text{C}$ 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 Change | SL: $\pm 3\%$ max or $1\text{pF}$ , 取较大者<br>Whichever is large    |  |
|   | 损耗因数<br>D. F.              | 0.30% max   |  |
|   | 绝缘电阻<br>I. R.              | 大于 $2500\text{M}\Omega$<br>$2500\text{M}\Omega\text{min}$         |  |
| 18. 寿命试验<br>Life Test                       | 外观<br>Appearance           | 无显著异常<br>No marked defect   | 施加 150% 的额定电压并在 $85 \pm 2^\circ\text{C}$ 下放置 1000 小时。(充放电电流限于 $50\text{mA}$ 以下)<br>试验前: 电容器应放置在 $85 \pm 2^\circ\text{C}$ 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>Apply a DC voltage of 150% of the rated voltage for 1000 hours at $85 \pm 2^\circ\text{C}$ .<br>(Charge/discharge current $\leq 50\text{mA}$ ).<br>pre-treatment: The capacitor shall be placed at $85 \pm 2^\circ\text{C}$ 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 condition.  |
|   | 容量变化<br>Capacitance Change | SL: $\pm 5\%$ max or $1\text{pF}$ , 取较大者<br>Whichever is large    |  |
|   | 损耗因数<br>D. F.              | 0.30% max   |  |
|   | 绝缘电阻<br>I. R.              | 大于 $4000\text{M}\Omega$<br>$4000\text{M}\Omega\text{min}$         |  |

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