



# CFL Components

## Capacitor

### Film Capacitor

Series/Type: Polyester Film Dielectric metal foils Capacitors, type CL11  
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1. 一般数据 Common date

1.1. 推荐的安装方法：电容器应以正常方式安装,当做振动、碰撞（冲击）试验时，应固定电容器本体及引出端。

Recommended fixing means Fixing resistor by normal means When considering as the vibration and collide ( pound at ) to experiment , should fix the capacitor essence and derivations to carry .

1.2. 尺寸：(单位：mm) 见表 1 Dimensions : (Unit: mm) table 1

2. 额定值和特性 Rating and Character

2.1. 电容量范围：见表 1 Capacitance range: table 1

2.2. 标称电容量的允许偏差 Capacitance tolerance: K:  $\pm 10\%$

2.3. 额定电压：见表 1 Voltage : table 1

2.4. 气候类别：55/105/21 (85℃至 125℃之间按 1.25%/℃降电压.)

Climatic catalogue: 55/105/21 (From 85℃ up to 125℃ with dropping voltage 1.25%/℃.)

2.5. 损耗角正切 Tangent of loss : 1KHZ  $\text{tg}\delta \leq 0.008$  (20℃)

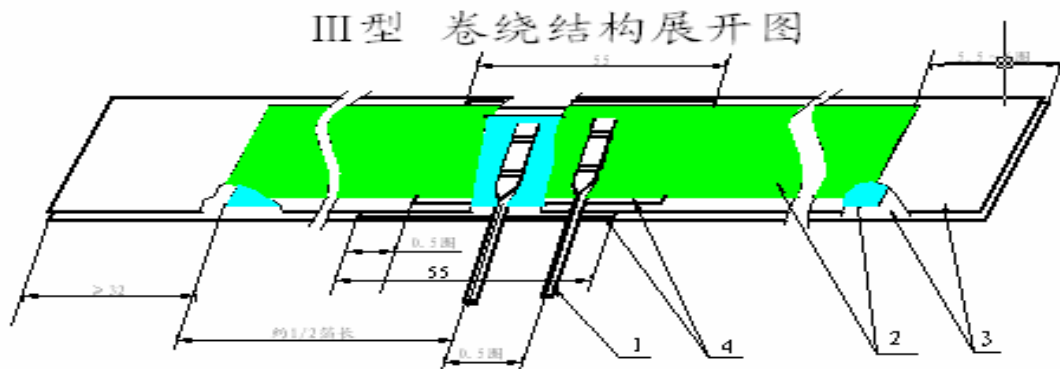
2.6. 绝缘电阻：500V 测试  $\geq 30000\text{M}\Omega$  (20℃, 1min)

Insulation resistance: 500V testing  $\geq 30000\text{M}\Omega$  (20℃, 1min)

2.7. 耐电压 Voltage proof :  $2.5U_R$  (5S)

3. 结构 Structure :

示意图如下 Schematic diagram as hereunder



1—引出线(Leads)

3—聚酯介质(Polyester film)

2—铝箔(Aluminum foil)

4—辅助膜(Assistant film)

#### 4. Dimension(mm)

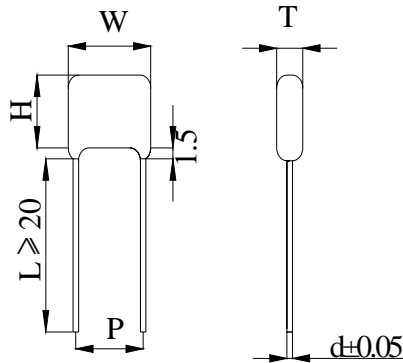


Table 1

| 耐压<br>Voltage | 容量<br>Capacitance | 最大尺寸<br>Max dimension |        |         | 引线间距<br>P±0.5<br>Leading spacing | 引线直径<br>d±0.05<br>Leading diameter |
|---------------|-------------------|-----------------------|--------|---------|----------------------------------|------------------------------------|
|               |                   | 宽 Width               | 高 High | 厚 Thick |                                  |                                    |
| 100V          | 0.022uF           | 13.0                  | 6.5    | 3.5     | 4.5                              | 0.5                                |
| 100V          | 0.022uF           | 13.0                  | 6.5    | 3.5     | 5.0                              | 0.5                                |
| 100V          | 0.047uF           | 12.5                  | 8.5    | 5.5     | 5.5                              | 0.5                                |
| 250V          | 0.047uF           | 13.5                  | 11.0   | 5.5     | 7.5                              | 0.5                                |
| 250V          | 0.022uF           | 13.0                  | 9.0    | 4.5     | 5.0                              | 0.5                                |
| 400V          | 0.015uF           | 13.0                  | 9.0    | 5.0     | 7.0                              | 0.5                                |
| 400V          | 0.033uF           | 15.0                  | 11.0   | 6.5     | 7.5                              | 0.5                                |
| 400V          | 0.01μF            | 12.0                  | 8.8    | 4.8     | 6.5                              | 0.5                                |
| 400V          | 0.022μF           | 14.0                  | 10.0   | 6.0     | 7.0                              | 0.5                                |
| 400V          | 0.022μF           | 14.0                  | 10.0   | 6.0     | 5.0                              | 0.5                                |
| 400V          | 0.022μF           | 14.0                  | 10.0   | 6.0     | 7.5                              | 0.5                                |
| 400V          | 0.047uF           | 15.0                  | 12.0   | 6.5     | 7.5                              | 0.5                                |
| 630V          | 0.001uF           | 11.5                  | 6.0    | 3.5     | 4.0                              | 0.5                                |
| 630V          | 0.0056uF          | 14.0                  | 8.0    | 4.5     | 5.0                              | 0.5                                |
| 630V          | 0.0068uF          | 14.0                  | 8.5    | 5.0     | 5.0                              | 0.5                                |
| 630V          | 0.0033μF          | 12.5                  | 7.6    | 4.5     | 5.0                              | 0.5                                |
| 630V          | 0.0047uF          | 12.5                  | 8.0    | 5.0     | 5.0                              | 0.5                                |
| 630V          | 0.015uF           | 14.5                  | 10.8   | 6.5     | 7.5                              | 0.5                                |
| 630V          | 0.015uF           | 14.5                  | 10.8   | 6.5     | 5.0                              | 0.5                                |
| 630V          | 0.01uF            | 14.5                  | 10.0   | 6.0     | 7.5                              | 0.5                                |
| 1200V         | 0.0022uF          | 14.0                  | 8.0    | 5.0     | 5.0                              | 0.5                                |
| 1200V         | 0.0027uF          | 14.0                  | 8.5    | 5.5     | 5.0                              | 0.5                                |
| 1200V         | 0.0033uF          | 14.0                  | 9.0    | 5.5     | 5.0                              | 0.5                                |
| 1200V         | 0.0039uF          | 14.0                  | 9.2    | 5.5     | 5.0                              | 0.5                                |
| 1200V         | 0.0018uF          | 14.0                  | 8.5    | 5.5     | 5.0                              | 0.5                                |
| 1600V         | 0.0022uF          | 15.5                  | 9.0    | 5.5     | 5.0                              | 0.5                                |
| 1600V         | 0.0027uF          | 16.0                  | 10.0   | 6.0     | 5.0                              | 0.5                                |

## 5. 电性能 Electrical Characteristics

| 试验项目<br>Test item             | 试验方法<br>Test method                         | IL  | AQL  | 性能要求<br>Performance requirements   |
|-------------------------------|---|-----|------|--|
| 外观检查<br>Visual examination    | 目测<br>Eyeballing                            | S-4 | 1.5  | 无可见损伤, 标志清晰。<br>No visible damage, legible marking   |
| 尺寸(量规检验)<br>Dimension         | 游标卡尺测量<br>Measure by vernier caliper        | S-4 | 1.5  | 符合本规格书表 1 要求。<br>Up to standard table 1  |
| 容量<br>Capacitance             | 电容测试仪<br>Capacitance meter test             | II  | 0.65 | 符合本规格书要求。<br>Up to standard  |
| 损耗角正切<br>Tangent of loss      | 电容测试仪<br>Capacitance meter test             | II  |      | 符合本规格书要求。<br>Up to standard  |
| 耐电压<br>Voltage proof          | 耐电压测试仪<br>Voltage test meter                | II  |      | 无击穿或飞弧。<br>No breakdown or flashover   |
| 绝缘电阻<br>Insulation resistance | 绝缘电阻测试仪<br>Insulation resistance test meter | II  |      | 符合本规格书要求。<br>Up to standard  |
| 可焊性<br>Solderability          | 235±5℃, Sn 合金<br>235±5℃, Sn alloy           | S-3 | 1.5  | 焊料自由流动并与引线润湿新锡覆盖率达 90%以上为可焊性良好。<br>It considered good solderability that solder flow freely and leader overcast 90% new tin. |
| 包装<br>Package                 | 目测 Eyeballing                               |     |      | 符合本规格书要求。<br>Up to standard  |