

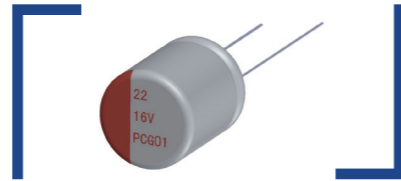


PC 导电高分子固体铝电解电容器 (低阻品) - 引线型

Conductive polymer solid aluminum electrolytic capacitor (Low ESR Type)- Radial type

特点 Features

- 低阻抗。
Low ESR.
- 可适于无铅焊。
Lead free-flow is supported.
- RoHS指令已对应完毕。
Adapted to the RoHS directive.

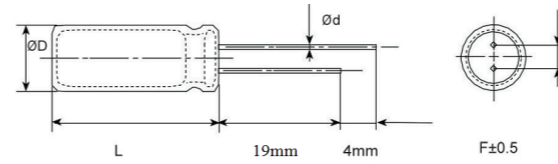


主要技术性能 Specifications

| 项目 Items | 特性 Characteristics | | | | | | |
|---|---|---|-------------------|-------------------|-------------------|----------------|--------------|
| 工作温度范围 Operating Temperature Range | -55~+105°C | | | | | | |
| 额定电压范围 Rated Voltage Range | 2.5~25V | | | | | | |
| 标称容量范围 Nominal Capacitance Range | 6.8~3300µF | | | | | | |
| 标称容量允许偏差 Nominal Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | |
| 漏电流 Leakage Current | 参照规格表 Reference parameter table 2分钟 at 20°C, after 2 minutes | | | | | | |
| 损耗角正切 (tgδ) Dissipation Factor (Max) | 20°C, 120Hz <table border="1"> <tr> <th>直径 tgδ</th> <th>Φ5~Φ5.45 0.10</th> <th>Φ6.3(L≤7) 0.10</th> <th>Φ6.3(L>7) 0.08</th> <th>Φ8~Φ10 0.08</th> </tr> </table> | 直径 tgδ | Φ5~Φ5.45 0.10 | Φ6.3(L≤7) 0.10 | Φ6.3(L>7) 0.08 | Φ8~Φ10 0.08 | |
| 直径 tgδ | Φ5~Φ5.45 0.10 | Φ6.3(L≤7) 0.10 | Φ6.3(L>7) 0.08 | Φ8~Φ10 0.08 | | | |
| 等效串联电阻 ESR | 参照规格表 Reference parameter table (mΩ at 100k~300kHz 20°C max) | | | | | | |
| 高低温特性比 Characteristics of impedance ratio at high temp. and low temp | 要求在100KHZ 20°C Based the value at 100KHZ. +20°C <table border="1"> <tr> <th>-55°C</th> <th>Z/Z20°C</th> <th>0.75 to 1.25</th> </tr> <tr> <th>+105°C</th> <th>Z/Z20°C</th> <th>0.75 to 1.25</th> </tr> </table> | -55°C | Z/Z20°C | 0.75 to 1.25 | +105°C | Z/Z20°C | 0.75 to 1.25 |
| -55°C | Z/Z20°C | 0.75 to 1.25 | | | | | |
| +105°C | Z/Z20°C | 0.75 to 1.25 | | | | | |
| 耐久性 Load Life | +105°C施加额定电压2000小时后, 待温度恢复到20°C后进行测试, 电容器应满足以下要求: After 2000 hours' application of rated voltage at 105°C, and then being stabilized at +20°C, the capacitors shall meet the following requirement: | | | | | | |
| | 容量变化率 Capacitance Change | ±20%初始值以内 Within ±20% of the initial value (16V: within ±25% of the initial value) | | | | | |
| | 损耗角正切 Dissipation Factor | ≤150%初始规定值 Not more than 150% of the initial specified value | | | | | |
| | 阻抗 Equivalent Series Resistance | ≤150%初始规定值 Not more than 150% of the initial specified value | | | | | |
| | 漏电流 Leakage Current | ≤初始规定值 Not more than the initial specified value | | | | | |
| 稳态湿热 Damp heat(Steady state) | 60°C, 90~95% RH, 不加电压1000小时 60°C, 90~95% RH, 1000 hours, No-applied voltage. | | | | | | |
| | 容量变化率 Capacitance Change | ±20%初始值以内 Within ±20% of the initial value (16V: within ±25% of the initial value) | | | | | |
| | 损耗角正切 Dissipation Factor | ≤150%初始规定值 Not more than 150% of the initial specified value | | | | | |
| | 阻抗 Equivalent Series Resistance | ≤150%初始规定值 Not more than 150% of the initial specified value | | | | | |
| | 漏电流 Leakage Current | ≤初始规定值 Not more than the initial specified value | | | | | |
| 耐焊接热 Resistance to Soldering Heat | (VPS) (260°C X 10s) | | | | | | |
| | 容量变化率 Capacitance Change | ±10%初始值以内 Within ±10% of the initial value (16V以上: within ±15% of the initial value) | | | | | |
| | 损耗角正切 Dissipation Factor | ≤初始规定值 Not more than the initial specified value | | | | | |
| | 阻抗 Equivalent Series Resistance | ≤初始规定值 Not more than the initial specified value | | | | | |
| | 漏电流 Leakage Current | ≤初始规定值 Not more than the initial specified value | | | | | |

※ 当产生疑问的时候, 用以下电压处理后测定。
电压处理: 125°C下, 连续加载120分钟的电压, 加载电压为额定电压。
When in doubt, apply the following voltage treatment and measure.
Voltage processing: under the condition of 125 °C ambient temperature, continuous load voltage of 120 minutes. Load voltage is rated voltage.

尺寸图 Dimensions



尺寸表 Size List

单位 Unit: mm

| | | | | | |
|------------|-------|------|-----|-----|-----|
| D(+0.5max) | 5 | 5.45 | 6.3 | 8 | 10 |
| F(±0.5) | 2.0 | 2.5 | 2.5 | 3.5 | 5 |
| d(±0.05) | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 |
| L | +1max | | | | |

标称容量、额定电压、额定纹波电流与尺寸对应表 Nominal Capacitance, Rated Voltage, Rated Ripple Current and Case Size Table

| Rated Volt. (V) | Capacitance (µF) | Size ΦD×L(mm) | Tanδ (120HZ, 20°C) | LC (µA) | ESR (mΩ/at 100k~300kHz 20°C max) | Rated R. C. (mA/rms at 100kHz, 105°C) |
|-----------------|------------------|---------------|--------------------|---------|----------------------------------|---------------------------------------|
| 2.5 | 330 | 5×7 | 0.1 | 165 | 15 | 3100 |
| | 330 | 5×8 | 0.1 | 165 | 15 | 3100 |
| | 390 | 5.45×7 | 0.1 | 195 | 15 | 3300 |
| | 470 | 5×8 | 0.1 | 235 | 15 | 3100 |
| | 470 | 5×9 | 0.1 | 235 | 15 | 3100 |
| | 470 | 6.3×6 | 0.1 | 235 | 15 | 3300 |
| | 560 | 5×9 | 0.1 | 280 | 15 | 3300 |
| | 560 | 5.45×9 | 0.1 | 280 | 15 | 3900 |
| | 560 | 6.3×8 | 0.08 | 280 | 7 | 5400 |
| | 680 | 5.45×9 | 0.1 | 340 | 15 | 4100 |
| | 820 | 6.3×8 | 0.08 | 410 | 7 | 5400 |
| | 820 | 8×8 | 0.08 | 410 | 7 | 6100 |
| | 1000 | 6.3×9 | 0.08 | 500 | 7 | 5400 |
| | 1000 | 8×8 | 0.08 | 500 | 7 | 6100 |
| | 1000 | 8×11.5 | 0.08 | 500 | 7 | 6100 |
| | 1500 | 8×8 | 0.08 | 750 | 7 | 6100 |
| | 1500 | 8×11.5 | 0.08 | 750 | 7 | 6100 |
| | 1500 | 10×12 | 0.08 | 750 | 7 | 6100 |
| | 2200 | 10×12 | 0.08 | 1100 | 7 | 6100 |
| | 3300 | 10×12 | 0.08 | 1650 | 7 | 6100 |
| 4 | 330 | 5×7 | 0.1 | 264 | 15 | 3100 |
| | 330 | 5×8 | 0.1 | 264 | 15 | 3100 |
| | 390 | 5.45×7 | 0.1 | 312 | 15 | 3300 |
| | 470 | 5×8 | 0.1 | 376 | 15 | 3100 |
| | 470 | 5×9 | 0.1 | 376 | 15 | 3300 |
| | 560 | 5×9 | 0.1 | 448 | 15 | 3300 |
| | 560 | 5.45×9 | 0.1 | 448 | 15 | 3300 |
| | 560 | 6.3×8 | 0.08 | 448 | 8 | 5400 |
| | 680 | 5.45×9 | 0.1 | 544 | 15 | 4700 |
| | 820 | 6.3×8 | 0.08 | 656 | 8 | 5400 |
| | 1000 | 6.3×9 | 0.08 | 800 | 7 | 5400 |
| | 1200 | 8×8 | 0.08 | 960 | 7 | 6100 |
| | 1500 | 8×8 | 0.08 | 1200 | 7 | 6100 |
| | 1500 | 8×11.5 | 0.08 | 1200 | 7 | 6100 |

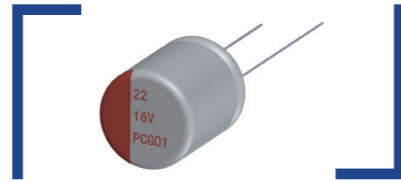


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特点 Features

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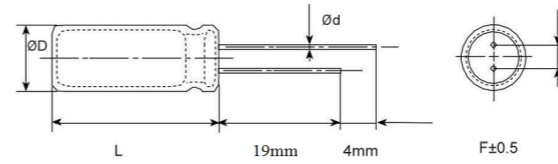


主要技术性能 Specifications

| 项目 Items | 特性 Characteristics | | | | | | | | | | |
|---|---|---|-----------|--------------|-----------|---------|--------------|------|------|------|------|
| 工作温度范围 Operating Temperature Range | -55~+105°C | | | | | | | | | | |
| 额定电压范围 Rated Voltage Range | 2.5~25V | | | | | | | | | | |
| 标称容量范围 Nominal Capacitance Range | 6.8~3300µF | | | | | | | | | | |
| 标称容量允许偏差 Nominal Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | | | | | |
| 漏电流 Leakage Current | 参照规格表 Reference parameter table 2分钟 at 20°C, after 2 minutes | | | | | | | | | | |
| 损耗角正切 (tgδ) Dissipation Factor (Max) | 20°C, 120Hz <table border="1"> <tr> <th>直径</th> <th>Φ5~Φ5.45</th> <th>Φ6.3(L≤7)</th> <th>Φ6.3(L>7)</th> <th>Φ8~Φ10</th> </tr> <tr> <td>tgδ</td> <td>0.10</td> <td>0.10</td> <td>0.08</td> <td>0.08</td> </tr> </table> | 直径 | Φ5~Φ5.45 | Φ6.3(L≤7) | Φ6.3(L>7) | Φ8~Φ10 | tgδ | 0.10 | 0.10 | 0.08 | 0.08 |
| 直径 | Φ5~Φ5.45 | Φ6.3(L≤7) | Φ6.3(L>7) | Φ8~Φ10 | | | | | | | |
| tgδ | 0.10 | 0.10 | 0.08 | 0.08 | | | | | | | |
| 等效串联电阻 ESR | 参照规格表 Reference parameter table (mΩ at 100k~300kHz 20°C max) | | | | | | | | | | |
| 高低温特性比 Characteristics of impedance ratio at high temp. and low temp | 要求在100KHZ 20°C Based the value at 100KHZ. +20°C <table border="1"> <tr> <th>-55°C</th> <th>Z/Z20°C</th> <th>0.75 to 1.25</th> </tr> <tr> <td>+105°C</td> <td>Z/Z20°C</td> <td>0.75 to 1.25</td> </tr> </table> | -55°C | Z/Z20°C | 0.75 to 1.25 | +105°C | Z/Z20°C | 0.75 to 1.25 | | | | |
| -55°C | Z/Z20°C | 0.75 to 1.25 | | | | | | | | | |
| +105°C | Z/Z20°C | 0.75 to 1.25 | | | | | | | | | |
| 耐久性 Load Life | +105°C施加额定电压2000小时后, 待温度恢复到20°C后进行测试, 电容器应满足以下要求: After 2000 hours' application of rated voltage at 105°C, and then being stabilized at +20°C, the capacitors shall meet the following requirement: | | | | | | | | | | |
| | 容量变化率 Capacitance Change | ±20%初始值以内 Within ±20% of the initial value (16V: within ±25% of the initial value) | | | | | | | | | |
| | 损耗角正切 Dissipation Factor | ≤150%初始规定值 Not more than 150% of the initial specified value | | | | | | | | | |
| | 阻抗 Equivalent Series Resistance | ≤150%初始规定值 Not more than 150% of the initial specified value | | | | | | | | | |
| | 漏电流 Leakage Current | ≤初始规定值 Not more than the initial specified value | | | | | | | | | |
| 稳态湿热 Damp heat(Steady state) | 60°C, 90~95% RH, 不加电压1000小时 60°C, 90~95% RH, 1000 hours, No-applied voltage. | | | | | | | | | | |
| | 容量变化率 Capacitance Change | ±20%初始值以内 Within ±20% of the initial value (16V: within ±25% of the initial value) | | | | | | | | | |
| | 损耗角正切 Dissipation Factor | ≤150%初始规定值 Not more than 150% of the initial specified value | | | | | | | | | |
| | 阻抗 Equivalent Series Resistance | ≤150%初始规定值 Not more than 150% of the initial specified value | | | | | | | | | |
| | 漏电流 Leakage Current | ≤初始规定值 Not more than the initial specified value | | | | | | | | | |
| 耐焊接热 Resistance to Soldering Heat | (VPS) (260°C X 10s) | | | | | | | | | | |
| | 容量变化率 Capacitance Change | ±10%初始值以内 Within ±10% of the initial value (16V以上: within ±15% of the initial value) | | | | | | | | | |
| | 损耗角正切 Dissipation Factor | ≤初始规定值 Not more than the initial specified value | | | | | | | | | |
| | 阻抗 Equivalent Series Resistance | ≤初始规定值 Not more than the initial specified value | | | | | | | | | |
| | 漏电流 Leakage Current | ≤初始规定值 Not more than the initial specified value | | | | | | | | | |

※ 当产生疑问的时候, 用以下电压处理后测定。
电压处理: 125°C下, 连续加载120分钟电压, 加载电压为额定电压。
When in doubt, apply the following voltage treatment and measure.
Voltage processing: under the condition of 125 °C ambient temperature, continuous load voltage of 120 minutes. Load voltage is rated voltage.

尺寸图 Dimensions



尺寸表 Size List

单位 Unit: mm

| | | | | | |
|------------|-------|------|-----|-----|-----|
| D(+0.5max) | 5 | 5.45 | 6.3 | 8 | 10 |
| F(±0.5) | 2.0 | 2.5 | 2.5 | 3.5 | 5 |
| d(±0.05) | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 |
| L | +1max | | | | |

标称容量、额定电压、额定纹波电流与尺寸对应表 Nominal Capacitance, Rated Voltage, Rated Ripple Current and Case Size Table

| Rated Volt. (V) | Capacitance (µF) | Size ΦD×L(mm) | Tanδ (120HZ, 20°C) | LC (µA) | ESR (mΩ/at 100k~300kHz 20°C max) | Rated R. C. (mA/rms at 100kHz, 105°C) |
|-----------------|------------------|---------------|--------------------|---------|----------------------------------|---------------------------------------|
| 2.5 | 330 | 5×7 | 0.1 | 165 | 15 | 3100 |
| | 330 | 5×8 | 0.1 | 165 | 15 | 3100 |
| | 390 | 5.45×7 | 0.1 | 195 | 15 | 3300 |
| | 470 | 5×8 | 0.1 | 235 | 15 | 3100 |
| | 470 | 5×9 | 0.1 | 235 | 15 | 3100 |
| | 470 | 6.3×6 | 0.1 | 235 | 15 | 3300 |
| | 560 | 5×9 | 0.1 | 280 | 15 | 3300 |
| | 560 | 5.45×9 | 0.1 | 280 | 15 | 3900 |
| | 560 | 6.3×8 | 0.08 | 280 | 7 | 5400 |
| | 680 | 5.45×9 | 0.1 | 340 | 15 | 4100 |
| | 820 | 6.3×8 | 0.08 | 410 | 7 | 5400 |
| | 820 | 8×8 | 0.08 | 410 | 7 | 6100 |
| | 1000 | 6.3×9 | 0.08 | 500 | 7 | 5400 |
| | 1000 | 8×8 | 0.08 | 500 | 7 | 6100 |
| | 1000 | 8×11.5 | 0.08 | 500 | 7 | 6100 |
| | 1500 | 8×8 | 0.08 | 750 | 7 | 6100 |
| | 1500 | 8×11.5 | 0.08 | 750 | 7 | 6100 |
| | 1500 | 10×12 | 0.08 | 750 | 7 | 6100 |
| | 2200 | 10×12 | 0.08 | 1100 | 7 | 6100 |
| | 3300 | 10×12 | 0.08 | 1650 | 7 | 6100 |
| 4 | 330 | 5×7 | 0.1 | 264 | 15 | 3100 |
| | 330 | 5×8 | 0.1 | 264 | 15 | 3100 |
| | 390 | 5.45×7 | 0.1 | 312 | 15 | 3300 |
| | 470 | 5×8 | 0.1 | 376 | 15 | 3100 |
| | 470 | 5×9 | 0.1 | 376 | 15 | 3300 |
| | 560 | 5×9 | 0.1 | 448 | 15 | 3300 |
| | 560 | 5.45×9 | 0.1 | 448 | 15 | 3300 |
| | 560 | 6.3×8 | 0.08 | 448 | 8 | 5400 |
| | 680 | 5.45×9 | 0.1 | 544 | 15 | 4700 |
| | 820 | 6.3×8 | 0.08 | 656 | 8 | 5400 |
| | 1000 | 6.3×9 | 0.08 | 800 | 7 | 5400 |
| | 1200 | 8×8 | 0.08 | 960 | 7 | 6100 |
| | 1500 | 8×8 | 0.08 | 1200 | 7 | 6100 |
| | 1500 | 8×11.5 | 0.08 | 1200 | 7 | 6100 |



| Rated Volt. (V) | Capacitance (uF) | Size ΦD×L(mm) | Tanδ (120HZ,20°C) | LC (μA) | ESR (mΩ/at 100k~300kHz 20°C max) | Rated R. C. (mA/rms at 100kHz, 105°C) |
|-----------------|------------------|---------------|-------------------|---------|----------------------------------|---------------------------------------|
| 6.3 | 100 | 5×7 | 0.1 | 126 | 15 | 3300 |
| | 220 | 5×7 | 0.1 | 277 | 15 | 3300 |
| | 220 | 5.45×7 | 0.1 | 277 | 15 | 3300 |
| | 220 | 6.3×5.4 | 0.1 | 277 | 15 | 3100 |
| | 270 | 5×7 | 0.1 | 340 | 15 | 3300 |
| | 270 | 5.45×7 | 0.1 | 340 | 15 | 3300 |
| | 270 | 6.3×5.4 | 0.1 | 340 | 15 | 3100 |
| | 330 | 5×8 | 0.1 | 415 | 15 | 3300 |
| | 330 | 6.3×6 | 0.1 | 415 | 15 | 3300 |
| | 390 | 5×8 | 0.1 | 491 | 15 | 3300 |
| | 470 | 5×9 | 0.1 | 592 | 15 | 3300 |
| | 470 | 5.45×9 | 0.1 | 592 | 15 | 3900 |
| | 470 | 6.3×6 | 0.1 | 592 | 15 | 3700 |
| | 470 | 6.3×8 | 0.08 | 592 | 8 | 4700 |
| | 470 | 8×8 | 0.08 | 592 | 7 | 5400 |
| | 500 | 5×9 | 0.1 | 630 | 15 | 3300 |
| | 560 | 5.45×9 | 0.1 | 705 | 15 | 3900 |
| | 560 | 6.3×8 | 0.08 | 705 | 8 | 4700 |
| | 560 | 8×8 | 0.08 | 705 | 7 | 5400 |
| | 680 | 6.3×8 | 0.08 | 856 | 8 | 4700 |
| | 680 | 8×8 | 0.08 | 856 | 7 | 5400 |
| | 820 | 6.3×8 | 0.08 | 1033 | 8 | 4700 |
| | 820 | 6.3×9 | 0.08 | 1033 | 8 | 4700 |
| | 820 | 8×8 | 0.08 | 1033 | 7 | 5400 |
| | 1000 | 6.3×10 | 0.08 | 1260 | 8 | 4700 |
| | 1000 | 8×8 | 0.08 | 1260 | 7 | 5400 |
| | 1000 | 8×11.5 | 0.08 | 1260 | 7 | 6100 |
| | 1200 | 8×8 | 0.08 | 1512 | 7 | 5400 |
| 1200 | 8×11.5 | 0.08 | 1512 | 7 | 6100 | |
| 1500 | 8×11.5 | 0.08 | 1890 | 7 | 6100 | |
| 1500 | 10×12 | 0.08 | 1890 | 7 | 6100 | |
| 2200 | 10×12 | 0.08 | 2772 | 7 | 6100 | |
| 3300 | 10×12 | 0.08 | 4158 | 7 | 6100 | |
| 7.5 | 270 | 5×7 | 0.1 | 405 | 15 | 3300 |
| | 330 | 5×8 | 0.1 | 495 | 15 | 3300 |
| | 330 | 5.45×7 | 0.1 | 495 | 15 | 3300 |
| | 390 | 5×9 | 0.1 | 585 | 15 | 3900 |
| | 470 | 5.45×9 | 0.1 | 705 | 15 | 3900 |
| | 470 | 6.3×8 | 0.08 | 705 | 8 | 4700 |
| | 500 | 5.45×9 | 0.1 | 750 | 15 | 3900 |
| | 560 | 6.3×8 | 0.08 | 840 | 8 | 4700 |
| | 560 | 8×8 | 0.08 | 840 | 8 | 4700 |
| | 680 | 6.3×9 | 0.08 | 1020 | 8 | 4700 |
| | 680 | 8×8 | 0.08 | 1020 | 8 | 5100 |

| Rated Volt. (V) | Capacitance (uF) | Size ΦD×L(mm) | Tanδ (120HZ,20°C) | LC (μA) | ESR (mΩ/at 100k~300kHz 20°C max) | Rated R. C. (mA/rms at 100kHz, 105°C) | |
|-----------------|------------------|---------------|-------------------|---------|----------------------------------|---------------------------------------|------|
| 7.5 | 820 | 6.3×9 | 0.08 | 1230 | 8 | 4700 | |
| | 820 | 8×8 | 0.08 | 1230 | 8 | 5400 | |
| | 1000 | 6.3×11 | 0.08 | 1500 | 8 | 4700 | |
| | 1000 | 8×8 | 0.08 | 1500 | 8 | 5400 | |
| | 1500 | 8×11.5 | 0.08 | 2250 | 8 | 5700 | |
| | 10 | 100 | 5×7 | 0.1 | 200 | 15 | 3300 |
| 150 | | 5×7 | 0.1 | 300 | 15 | 3300 | |
| 150 | | 6.3×5.4 | 0.1 | 300 | 15 | 2400 | |
| 220 | | 5×8 | 0.1 | 440 | 15 | 3300 | |
| 220 | | 5.45×7 | 0.1 | 440 | 15 | 3300 | |
| 270 | | 6.3×6 | 0.1 | 540 | 15 | 3300 | |
| 330 | | 5×9 | 0.1 | 660 | 15 | 3900 | |
| 330 | | 5.45×9 | 0.1 | 660 | 15 | 3900 | |
| 330 | | 6.3×8 | 0.08 | 660 | 10 | 4300 | |
| 390 | | 5.45×9 | 0.1 | 780 | 15 | 3900 | |
| 470 | | 6.3×9 | 0.08 | 940 | 10 | 4300 | |
| 470 | | 8×8 | 0.08 | 940 | 10 | 4700 | |
| 560 | | 6.3×9 | 0.08 | 1120 | 10 | 4300 | |
| 560 | | 6.3×10 | 0.08 | 1120 | 10 | 4300 | |
| 560 | | 8×8 | 0.08 | 1120 | 10 | 4700 | |
| 680 | | 6.3×11 | 0.08 | 1360 | 10 | 4300 | |
| 680 | | 8×8 | 0.08 | 1360 | 10 | 4700 | |
| 820 | | 8×11.5 | 0.08 | 1640 | 10 | 5400 | |
| 1000 | | 8×11.5 | 0.08 | 2000 | 10 | 5400 | |
| 1200 | | 10×12 | 0.08 | 2400 | 10 | 5400 | |
| 1500 | | 10×12 | 0.08 | 3000 | 10 | 5400 | |
| 16 | | 47 | 5×7 | 0.1 | 150 | 20 | 2200 |
| | | 68 | 5×7 | 0.1 | 217 | 20 | 2200 |
| | | 82 | 5×7 | 0.1 | 262 | 20 | 2200 |
| | | 100 | 5×7 | 0.1 | 320 | 20 | 3100 |
| | | 100 | 5×8 | 0.1 | 320 | 20 | 3100 |
| | | 100 | 5.45×7 | 0.1 | 320 | 20 | 3100 |
| | | 100 | 6.3×5.4 | 0.1 | 320 | 20 | 3100 |
| | 100 | 6.3×8 | 0.08 | 320 | 10 | 4100 | |
| | 150 | 5×9 | 0.1 | 480 | 15 | 3300 | |
| | 180 | 6.3×6 | 0.1 | 576 | 20 | 3900 | |
| | 220 | 5.45×9 | 0.1 | 704 | 15 | 3900 | |
| | 220 | 6.3×8 | 0.08 | 704 | 10 | 4700 | |
| | 270 | 5.45×9 | 0.1 | 864 | 15 | 3900 | |
| | 270 | 6.3×8 | 0.08 | 864 | 10 | 4700 | |
| | 330 | 6.3×9 | 0.08 | 1056 | 10 | 4700 | |
| | 330 | 8×8 | 0.08 | 1056 | 10 | 5100 | |
| | 390 | 6.3×9 | 0.08 | 1248 | 10 | 4700 | |
| | 470 | 6.3×10 | 0.08 | 1504 | 10 | 4700 | |
| 470 | 8×8 | 0.08 | 1504 | 10 | 5100 | | |



| Rated Volt. (V) | Capacitance (uF) | Size ΦD×L(mm) | Tanδ (120HZ,20°C) | LC (μA) | ESR (mΩ/at 100k~300kHz 20°C max) | Rated R. C. (mA/rms at 100kHz, 105°C) |
|-----------------|------------------|---------------|-------------------|---------|----------------------------------|---------------------------------------|
| 6.3 | 100 | 5×7 | 0.1 | 126 | 15 | 3300 |
| | 220 | 5×7 | 0.1 | 277 | 15 | 3300 |
| | 220 | 5.45×7 | 0.1 | 277 | 15 | 3300 |
| | 220 | 6.3×5.4 | 0.1 | 277 | 15 | 3100 |
| | 270 | 5×7 | 0.1 | 340 | 15 | 3300 |
| | 270 | 5.45×7 | 0.1 | 340 | 15 | 3300 |
| | 270 | 6.3×5.4 | 0.1 | 340 | 15 | 3100 |
| | 330 | 5×8 | 0.1 | 415 | 15 | 3300 |
| | 330 | 6.3×6 | 0.1 | 415 | 15 | 3300 |
| | 390 | 5×8 | 0.1 | 491 | 15 | 3300 |
| | 470 | 5×9 | 0.1 | 592 | 15 | 3300 |
| | 470 | 5.45×9 | 0.1 | 592 | 15 | 3900 |
| | 470 | 6.3×6 | 0.1 | 592 | 15 | 3700 |
| | 470 | 6.3×8 | 0.08 | 592 | 8 | 4700 |
| | 470 | 8×8 | 0.08 | 592 | 7 | 5400 |
| | 500 | 5×9 | 0.1 | 630 | 15 | 3300 |
| | 560 | 5.45×9 | 0.1 | 705 | 15 | 3900 |
| | 560 | 6.3×8 | 0.08 | 705 | 8 | 4700 |
| | 560 | 8×8 | 0.08 | 705 | 7 | 5400 |
| | 680 | 6.3×8 | 0.08 | 856 | 8 | 4700 |
| | 680 | 8×8 | 0.08 | 856 | 7 | 5400 |
| | 820 | 6.3×8 | 0.08 | 1033 | 8 | 4700 |
| | 820 | 6.3×9 | 0.08 | 1033 | 8 | 4700 |
| | 820 | 8×8 | 0.08 | 1033 | 7 | 5400 |
| | 1000 | 6.3×10 | 0.08 | 1260 | 8 | 4700 |
| | 1000 | 8×8 | 0.08 | 1260 | 7 | 5400 |
| | 1000 | 8×11.5 | 0.08 | 1260 | 7 | 6100 |
| | 1200 | 8×8 | 0.08 | 1512 | 7 | 5400 |
| | 1200 | 8×11.5 | 0.08 | 1512 | 7 | 6100 |
| | 1500 | 8×11.5 | 0.08 | 1890 | 7 | 6100 |
| 1500 | 10×12 | 0.08 | 1890 | 7 | 6100 | |
| 2200 | 10×12 | 0.08 | 2772 | 7 | 6100 | |
| 3300 | 10×12 | 0.08 | 4158 | 7 | 6100 | |
| 7.5 | 270 | 5×7 | 0.1 | 405 | 15 | 3300 |
| | 330 | 5×8 | 0.1 | 495 | 15 | 3300 |
| | 330 | 5.45×7 | 0.1 | 495 | 15 | 3300 |
| | 390 | 5×9 | 0.1 | 585 | 15 | 3900 |
| | 470 | 5.45×9 | 0.1 | 705 | 15 | 3900 |
| | 470 | 6.3×8 | 0.08 | 705 | 8 | 4700 |
| | 500 | 5.45×9 | 0.1 | 750 | 15 | 3900 |
| | 560 | 6.3×8 | 0.08 | 840 | 8 | 4700 |
| | 560 | 8×8 | 0.08 | 840 | 8 | 4700 |
| | 680 | 6.3×9 | 0.08 | 1020 | 8 | 4700 |
| | 680 | 8×8 | 0.08 | 1020 | 8 | 5100 |

| Rated Volt. (V) | Capacitance (uF) | Size ΦD×L(mm) | Tanδ (120HZ,20°C) | LC (μA) | ESR (mΩ/at 100k~300kHz 20°C max) | Rated R. C. (mA/rms at 100kHz, 105°C) | |
|-----------------|------------------|---------------|-------------------|---------|----------------------------------|---------------------------------------|------|
| 7.5 | 820 | 6.3×9 | 0.08 | 1230 | 8 | 4700 | |
| | 820 | 8×8 | 0.08 | 1230 | 8 | 5400 | |
| | 1000 | 6.3×11 | 0.08 | 1500 | 8 | 4700 | |
| | 1000 | 8×8 | 0.08 | 1500 | 8 | 5400 | |
| | 1500 | 8×11.5 | 0.08 | 2250 | 8 | 5700 | |
| | 10 | 100 | 5×7 | 0.1 | 200 | 15 | 3300 |
| 150 | | 5×7 | 0.1 | 300 | 15 | 3300 | |
| 150 | | 6.3×5.4 | 0.1 | 300 | 15 | 2400 | |
| 220 | | 5×8 | 0.1 | 440 | 15 | 3300 | |
| 220 | | 5.45×7 | 0.1 | 440 | 15 | 3300 | |
| 270 | | 6.3×6 | 0.1 | 540 | 15 | 3300 | |
| 330 | | 5×9 | 0.1 | 660 | 15 | 3900 | |
| 330 | | 5.45×9 | 0.1 | 660 | 15 | 3900 | |
| 330 | | 6.3×8 | 0.08 | 660 | 10 | 4300 | |
| 390 | | 5.45×9 | 0.1 | 780 | 15 | 3900 | |
| 470 | | 6.3×9 | 0.08 | 940 | 10 | 4300 | |
| 470 | | 8×8 | 0.08 | 940 | 10 | 4700 | |
| 560 | | 6.3×9 | 0.08 | 1120 | 10 | 4300 | |
| 560 | | 6.3×10 | 0.08 | 1120 | 10 | 4300 | |
| 560 | | 8×8 | 0.08 | 1120 | 10 | 4700 | |
| 680 | | 6.3×11 | 0.08 | 1360 | 10 | 4300 | |
| 680 | | 8×8 | 0.08 | 1360 | 10 | 4700 | |
| 820 | | 8×11.5 | 0.08 | 1640 | 10 | 5400 | |
| 1000 | | 8×11.5 | 0.08 | 2000 | 10 | 5400 | |
| 1200 | | 10×12 | 0.08 | 2400 | 10 | 5400 | |
| 1500 | | 10×12 | 0.08 | 3000 | 10 | 5400 | |
| 16 | | 47 | 5×7 | 0.1 | 150 | 20 | 2200 |
| | | 68 | 5×7 | 0.1 | 217 | 20 | 2200 |
| | | 82 | 5×7 | 0.1 | 262 | 20 | 2200 |
| | | 100 | 5×7 | 0.1 | 320 | 20 | 3100 |
| | | 100 | 5×8 | 0.1 | 320 | 20 | 3100 |
| | | 100 | 5.45×7 | 0.1 | 320 | 20 | 3100 |
| | | 100 | 6.3×5.4 | 0.1 | 320 | 20 | 3100 |
| | | 100 | 6.3×8 | 0.08 | 320 | 10 | 4100 |
| | | 150 | 5×9 | 0.1 | 480 | 15 | 3300 |
| | 180 | 6.3×6 | 0.1 | 576 | 20 | 3900 | |
| | 220 | 5.45×9 | 0.1 | 704 | 15 | 3900 | |
| | 220 | 6.3×8 | 0.08 | 704 | 10 | 4700 | |
| | 270 | 5.45×9 | 0.1 | 864 | 15 | 3900 | |
| | 270 | 6.3×8 | 0.08 | 864 | 10 | 4700 | |
| | 330 | 6.3×9 | 0.08 | 1056 | 10 | 4700 | |
| | 330 | 8×8 | 0.08 | 1056 | 10 | 5100 | |
| | 390 | 6.3×9 | 0.08 | 1248 | 10 | 4700 | |
| | 470 | 6.3×10 | 0.08 | 1504 | 10 | 4700 | |
| 470 | 8×8 | 0.08 | 1504 | 10 | 5100 | | |



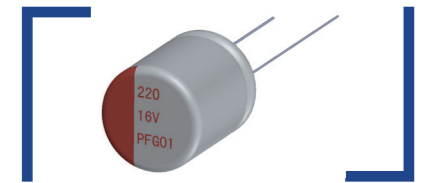
| Rated Volt. (V) | Capacitance (uF) | Size ΦD×L(mm) | Tanδ (120HZ,20°C) | LC (μA) | ESR (mΩ/at 100k~300kHz 20°C max) | Rated R. C. (mA/rms at 100kHz, 105°C) |
|-----------------|------------------|---------------|-------------------|---------|----------------------------------|---------------------------------------|
| 16 | 470 | 8×11.5 | 0.08 | 1540 | 10 | 5100 |
| | 560 | 8×8 | 0.08 | 1792 | 10 | 5100 |
| | 560 | 8×11.5 | 0.08 | 1792 | 10 | 5400 |
| | 680 | 8×11.5 | 0.08 | 2176 | 10 | 5400 |
| | 820 | 8×11.5 | 0.08 | 2624 | 10 | 5400 |
| | 820 | 10×12 | 0.08 | 2624 | 10 | 5400 |
| | 1000 | 10×12 | 0.08 | 3200 | 10 | 5400 |
| | 1200 | 10×12 | 0.08 | 3840 | 10 | 5400 |
| 20 | 47 | 6.3×5.4 | 0.1 | 188 | 25 | 2200 |
| | 68 | 6.3×5.4 | 0.1 | 272 | 25 | 2200 |
| | 82 | 6.3×5.4 | 0.1 | 328 | 25 | 2200 |
| | 100 | 6.3×8 | 0.08 | 400 | 24 | 2300 |
| | 220 | 8×8 | 0.08 | 880 | 24 | 2600 |
| | 330 | 8×11.5 | 0.08 | 1320 | 24 | 3900 |
| | 390 | 8×11.5 | 0.08 | 1560 | 20 | 3900 |
| | 470 | 8×11.5 | 0.08 | 1880 | 20 | 3900 |
| | 560 | 8×11.5 | 0.08 | 2240 | 20 | 3900 |
| | 680 | 10×12 | 0.08 | 2720 | 20 | 3900 |
| | 820 | 10×12 | 0.08 | 3280 | 20 | 3900 |
| 1000 | 10×12 | 0.08 | 4000 | 20 | 3900 | |
| 25 | 6.8 | 6.3×5.4 | 0.1 | 100 | 35 | 2100 |
| | 10 | 6.3×5.4 | 0.1 | 100 | 35 | 2100 |
| | 22 | 6.3×5.4 | 0.1 | 110 | 35 | 2100 |
| | 33 | 6.3×5.4 | 0.1 | 165 | 35 | 2100 |
| | 47 | 6.3×6 | 0.1 | 235 | 30 | 2300 |
| | 56 | 6.3×6 | 0.1 | 280 | 30 | 2300 |
| | 68 | 6.3×8 | 0.08 | 340 | 25 | 2600 |
| | 82 | 6.3×8 | 0.08 | 410 | 25 | 2600 |
| | 100 | 8×11.5 | 0.08 | 500 | 24 | 3900 |
| | 220 | 8×11.5 | 0.08 | 1100 | 24 | 3900 |
| | 270 | 8×11.5 | 0.08 | 1350 | 24 | 3900 |
| | 330 | 8×11.5 | 0.08 | 1650 | 24 | 3900 |
| | 390 | 10×12 | 0.08 | 1950 | 24 | 3900 |
| 470 | 10×12 | 0.08 | 2350 | 24 | 3900 | |

PF 导电性高分子固体铝电解电容器 (长寿命品) -引线型

Conductive polymer solid aluminum electrolytic capacitor (Long life Type)- Radial type

特点 Features

- 长寿命。 Long life.
- 可适于无铅焊。 Lead free-flow is supported.
- RoHS指令已对应完毕。 Adapted to the ROHS directive.



主要技术性能 Specifications

| 项目 Items | 特性 Characteristics | | | |
|---|--|---|--------------------|------------------------------|
| 工作温度范围 Operating Temperature Range | -55~+105°C | | | |
| 额定电压范围 Rated Voltage Range | 2.5~25V | | | |
| 标称容量范围 Nominal Capacitance Range | 220~2200μF | | | |
| 标称容量允许偏差 Nominal Capacitance Tolerance | ±20% (20°C, 120Hz) | | | |
| 漏电流 Leakage Current | 参照规格表 Reference parameter table 2分钟 at 20°C, after 2 minutes | | | |
| 损耗角正切 (tgδ) Dissipation Factor (Max) | 20°C, 120Hz | 直径 tgδ | Φ6.3~Φ10 0.08 | |
| 等效串联电阻 ESR | 参照规格表 Reference parameter table (mΩ at 100k~300kHz 20°C max) | | | |
| 高低温特性比 Characteristics of impedance ratio at high temp. and low temp | 要求在100KHZ 20°C Based the value at 100KHZ. +20°C | -55°C +105°C | Z/Z20°C Z/Z20°C | 0.75 to 1.25 0.75 to 1.25 |
| 耐久性 Load Life | +105°C施加额定电压5000小时后，待温度恢复到20°C后进行测试，电容器应满足以下要求： After 5000 hours' application of rated voltage at 105°C, and then being stabilized at +20°C, the capacitors shall meet the following requirement: | | | |
| | 容量变化率 Capacitance Change | ±20%初始值以内 Within ±20% of the initial value (16V: within ±25% of the initial value) | | |
| | 损耗角正切 Dissipation Factor | ≤ 150%初始规定值 Not more than 150% of the initial specified value | | |
| | 阻抗 Equivalent Series Resistance | ≤ 150%初始规定值 Not more than 150% of the initial specified value | | |
| | 漏电流 Leakage Current | ≤ 初始规定值 Not more than the initial specified value | | |
| 稳态湿热 Damp heat(Steady state) | 60°C, 90~95% RH, 不加电压1000小时 60°C, 90~95% RH, 1000 hours, No-applied voltage. | | | |
| | 容量变化率 Capacitance Change | ±20%初始值以内 Within ±20% of the initial value (16V: within ±25% of the initial value) | | |
| | 损耗角正切 Dissipation Factor | ≤ 150%初始规定值 Not more than 150% of the initial specified value | | |
| | 阻抗 Equivalent Series Resistance | ≤ 150%初始规定值 Not more than 150% of the initial specified value | | |
| | 漏电流 Leakage Current | ≤ 初始规定值 Not more than the initial specified value | | |
| 耐焊接热 Resistance to Soldering Heat | (VPS) (260°C X 10s) | | | |
| | 容量变化率 Capacitance Change | ±10%初始值以内 Within ±10% of the initial value (16V以上: within ±15% of the initial value) | | |
| | 损耗角正切 Dissipation Factor | ≤ 初始规定值 Not more than the initial specified value | | |
| | 阻抗 Equivalent Series Resistance | ≤ 初始规定值 Not more than the initial specified value | | |
| | 漏电流 Leakage Current | ≤ 初始规定值 Not more than the initial specified value | | |

※ 当产生疑问的时候，用以下电压处理后测定。
电压处理: 125°C下，连续加载120分钟的电压。加载电压为额定电压。
When in doubt, apply the following voltage treatment and measure.
Voltage processing: under the condition of 125 °C ambient temperature, continuous load voltage of 120 minutes. Load voltage is rated voltage.

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[APA0812561M016R](#) [APA0812681M010R](#) [APA1010102M010R](#) [APA1010122M006R](#)