



VT

铝电解电容器-贴片型

Aluminum electrolytic capacitor- SMD type

特点 Features

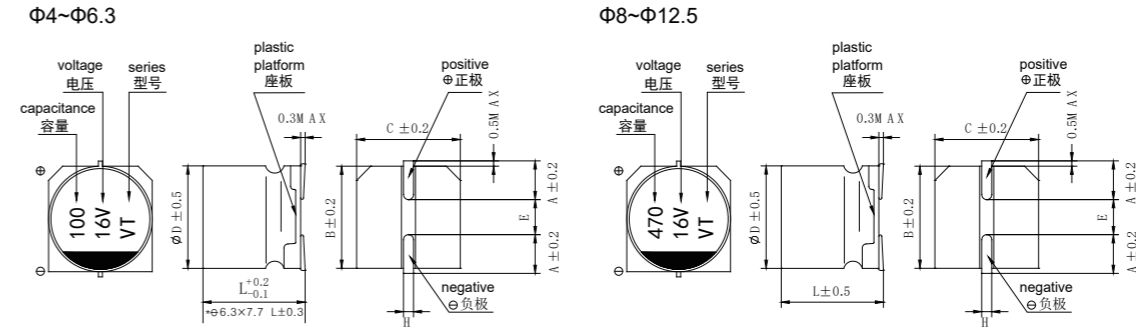
- 产品直径 Case diameter: Φ 4mm - Φ 12.5mm.
- 适用于再流焊。Reflow soldering is available.
- 适用于高密度表面组装。Available for high density surface mounting.
- 工作温度范围宽 (-40 ~ +105°C) Operating over wide temperature range.
- RoHS指令已对应完毕。Adapted to the RoHS directive.



主要技术性能 Specifications

| 项目 Items | 特性 Performance Characteristics | | | | | | | | | |
|---|--|---|------|------|------|------|------|------|------|------|
| 工作温度范围 Operating Temperature Range | -40~+105°C | | | | | | | | | |
| 额定电压范围 Rated Voltage Range | 6.3~100V | | | | | | | | | |
| 标称容量范围 Nominal Capacitance Range | 0.1~3300 μ F | | | | | | | | | |
| 标称容量允许偏差 Capacitance Tolerance | \pm 20% (20°C, 120Hz) | | | | | | | | | |
| 漏电流 Leakage Current | $I \leq 0.01CRVR$ or 3(μ A), 取较大者 (2分钟) CR: 标称容量 (μ F) UR: 额定电压 (V) $I \leq 0.01CRVR$ or 3(μ A) Whichever is greater(at 20°C, After 2 minutes) CR: Nominal Capacitance (μ F) UR: Rated voltages (V) | | | | | | | | | |
| 损耗角正切 (tg δ) Dissipation Factor (Max) 20°C, 120Hz | U_r (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 |
| | tg δ | 0.28 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.12 | 0.10 | 0.10 |
| 耐久性 Load Life | +105°C施加额定电压1000小时后, 电容器应满足以下要求: After 1000 hours' application of rated voltage at 105°C, the capacitor shall meet the following requirement: | | | | | | | | | |
| | 容量变化率 Capacitance Change | \pm 20%初始值以内 Within \pm 20% of the initial value | | | | | | | | |
| | 损耗角正切 Dissipation Factor | \leq 200%初始规定值 Not more than 200% of the initial specified value | | | | | | | | |
| | 漏电流 Leakage Current | \leq 初始规定值 Not more than the initial specified value | | | | | | | | |
| 高温贮存 Shelf Life | +105°C贮存1000小时后, 电容器应满足以上耐久性要求 After storage for 1000 hours at +105°C, the capacitors shall meet the requirement of load life above | | | | | | | | | |
| 低温特性 Low Temperature Stability 阻抗比 Impedance Ratio (120Hz) | U_r (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 |
| | Z(-25°C)/Z(+20°C) | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Z(-40°C)/Z(+20°C) | 8 | 6 | 4 | 4 | 3 | 3 | 3 | 3 | 3 |
| 耐焊接热 Resistance to Soldering Heat | 在250°C的条件下, 电容器在热板上保持30秒, 然后从热板上取出电容器, 让其在室温下恢复, 电容器应满足以下要求: The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement. | | | | | | | | | |
| | 容量变化率 Capacitance Change | \pm 10%初始值以内 Within \pm 10% of the initial value | | | | | | | | |
| | 损耗角正切 Dissipation Factor | \leq 初始规定值 Not more than the initial specified value | | | | | | | | |
| | 漏电流 Leakage Current | \leq 初始规定值 Not more than the initial specified value | | | | | | | | |

外形图及尺寸表 Case Size Table



单位 Unit: mm

| | 4×5.4 | 5×5.4 | 6.3×5.4 | 6.3×7.7 | 8×6.5 | 8×10.5 | 10×10.5 | 10×12.5 | 12.5×13.5 |
|---|---------|-------|---------|---------|-------|--------|---------|---------|-----------|
| A | 1.8 | 2.1 | 2.4 | 2.4 | 2.9 | 2.9 | 3.2 | 3.2 | 4.7 |
| B | 4.3 | 5.3 | 6.6 | 6.6 | 8.3 | 8.3 | 10.3 | 10.3 | 13 |
| C | 4.3 | 5.3 | 6.6 | 6.6 | 8.3 | 8.3 | 10.3 | 10.3 | 13 |
| E | 1.0 | 1.3 | 2.2 | 2.2 | 2.3 | 3.1 | 4.5 | 4.5 | 4.5 |
| L | 5.4 | 5.4 | 5.4 | 7.7 | 6.5 | 10.5 | 10.5 | 12.5 | 13.5 |
| H | 0.5~0.8 | | | | | | 0.8~1.1 | | |

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

| 电压WV (Vdc) | 容量Cap (μ F) | 产品尺寸 | 纹波电流 | 电压WV (Vdc) | 容量Cap (μ F) | 产品尺寸 | 纹波电流 | 电压WV (Vdc) | 容量Cap (μ F) | 产品尺寸 | 纹波电流 | 电压WV (Vdc) | 容量Cap (μ F) | 产品尺寸 | 纹波电流 |
|------------|------------------|---------|------|------------|------------------|---------|-------|------------|------------------|-----------|------|------------|------------------|-----------|------|
| 6.3 | 22 | 4×5.4 | 29 | 16 | 10 | 4×5.4 | 28 | 35 | 4.7 | 4×5.4 | 22 | 50 | 0.1 | 4×5.4 | 2.3 |
| | 33 | 4×5.4 | 26 | | 22 | 5×5.4 | 39 | | 10 | 5×5.4 | 30 | | 0.22 | 4×5.4 | 3.4 |
| | 47 | 5×5.4 | 46 | | 33 | 5×5.4 | 35 | | 22 | 6.3×5.4 | 60 | | 0.33 | 4×5.4 | 4.1 |
| | 100 | 5×5.4 | 50 | | 47 | 6.3×5.4 | 65 | | 33 | 6.3×5.4 | 62 | | 0.47 | 5×5.4 | 5 |
| | 220 | 6.3×5.4 | 76 | | 100 | 6.3×5.4 | 70 | | 47 | 6.3×7.7 | 80 | | 1 | 4×5.4 | 10 |
| | 330 | 6.3×7.7 | 123 | | 220 | 6.3×7.7 | 120 | | 68 | 6.3×7.7 | 82 | | 2.2 | 4×5.4 | 16 |
| | 470 | 8×10.5 | 330 | | 330 | 8×10.5 | 325 | | 100 | 8×10.5 | 296 | | 3.3 | 4×5.4 | 16 |
| | 1000 | 10×10.5 | 470 | | 470 | 8×10.5 | 340 | | 220 | 10×10.5 | 435 | | 4.7 | 5×5.4 | 23 |
| | 1500 | 10×10.5 | 490 | | 680 | 10×10.5 | 410 | | 330 | 10×10.5 | 450 | | 10 | 6.3×5.4 | 32 |
| | 2200 | 10×12.5 | 520 | | 1000 | 10×10.5 | 450 | | 470 | 12.5×13.5 | 550 | | 22 | 6.3×5.4 | 36 |
| 3300 | 12.5×13.5 | 650 | 1200 | 10×12.5 | 460 | 4.7 | 5×5.4 | 17 | 33 | 6.3×7.7 | 70 | 100 | 12.5×13.5 | 570 | |
| 10 | 22 | 4×5.4 | 21 | 25 | 10 | 4×5.4 | 27 | 63 | 10 | 6.3×5.4 | 22 | 100 | 10 | 6.3×7.7 | 32 |
| | 33 | 5×5.4 | 34 | | 22 | 5×5.4 | 44 | | 22 | 6.3×7.7 | 58 | | 100 | 8×10.5 | 230 |
| | 47 | 5×5.4 | 36 | | 47 | 6.3×5.4 | 70 | | 47 | 8×10.5 | 170 | | 220 | 10×10.5 | 375 |
| | 100 | 6.3×5.4 | 69 | | 68 | 6.3×5.4 | 75 | | 100 | 10×10.5 | 310 | | 470 | 12.5×13.5 | 570 |
| | 220 | 6.3×7.7 | 120 | | 100 | 6.3×7.7 | 100 | | 220 | 12.5×13.5 | 440 | | 10 | 6.3×7.7 | 32 |
| | 330 | 8×10.5 | 305 | | 220 | 8×10.5 | 320 | | 10 | 6.3×7.7 | 38 | | 22 | 8×10.5 | 100 |
| | 470 | 8×10.5 | 380 | | 330 | 10×10.5 | 450 | | 22 | 8×10.5 | 60 | | 33 | 10×10.5 | 150 |
| | 680 | 10×10.5 | 390 | | 470 | 10×10.5 | 490 | | 33 | 8×10.5 | 70 | | 47 | 10×10.5 | 155 |
| | 1000 | 10×10.5 | 450 | | 560 | 10×12.5 | 510 | | 47 | 10×10.5 | 120 | | 100 | 12.5×13.5 | 230 |
| | 1500 | 10×12.5 | 480 | | 680 | 10×12.5 | 520 | | 100 | 12.5×13.5 | 230 | | | | |
| 2200 | 12.5×13.5 | 820 | 1000 | 12.5×13.5 | 650 | | | | | | | | | | |

I_r = Rated ripple current (mA) (105°C, 120Hz) I_r = 额定纹波电流 (mA) (105°C, 120Hz)

额定纹波电流频率修正系数 Frequency correction factor for ripple current

| Frequency 频率 | 50Hz | 120Hz | 300Hz | 1KHz | 10K~100Hz |
|----------------|------|-------|-------|------|-----------|
| Coefficient 系数 | 0.70 | 1.00 | 1.17 | 1.36 | 1.50 |



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特点 Features

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- 适用于再流焊。Reflow soldering is available.
- 适用于高密度表面组装。Available for high density surface mounting.
- 工作温度范围宽 (-40 ~ +105°C) Operating over wide temperature range.
- RoHS指令已对应完毕。Adapted to the RoHS directive.

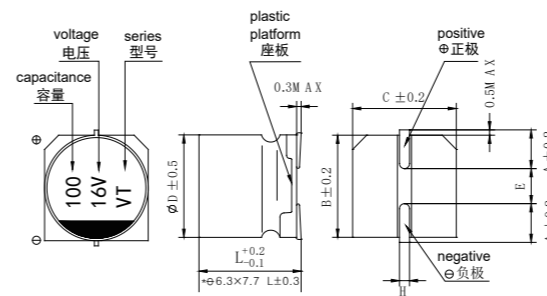


主要技术性能 Specifications

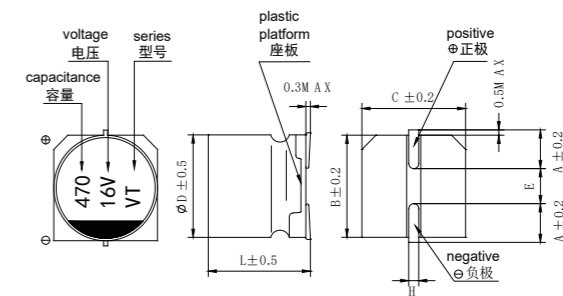
| 项目 Items | 特性 Performance Characteristics | | | | | | | | | |
|---|--|---|------|------|------|------|------|------|------|------|
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| 额定电压范围 Rated Voltage Range | 6.3~100V | | | | | | | | | |
| 标称容量范围 Nominal Capacitance Range | 0.1~3300 μ F | | | | | | | | | |
| 标称容量允许偏差 Capacitance Tolerance | \pm 20% (20°C, 120Hz) | | | | | | | | | |
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| 损耗角正切 (tg δ) Dissipation Factor (Max) 20°C, 120Hz | U_r (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 |
| | tg δ | 0.28 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.12 | 0.10 | 0.10 |
| 耐久性 Load Life | +105°C施加额定电压1000小时后, 电容器应满足以下要求: After 1000 hours' application of rated voltage at 105°C, the capacitor shall meet the following requirement: | | | | | | | | | |
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| 高温贮存 Shelf Life | +105°C贮存1000小时后, 电容器应满足以上耐久性要求 After storage for 1000 hours at +105°C, the capacitors shall meet the requirement of load life above | | | | | | | | | |
| 低温特性 Low Temperature Stability 阻抗比 Impedance Ratio (120Hz) | U_r (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 |
| | Z(-25°C)/Z(+20°C) | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Z(-40°C)/Z(+20°C) | 8 | 6 | 4 | 4 | 3 | 3 | 3 | 3 | 3 |
| 耐焊接热 Resistance to Soldering Heat | 在250°C的条件下, 电容器在热板上保持30秒, 然后从热板上取出电容器, 让其在室温下恢复, 电容器应满足以下要求: The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement. | | | | | | | | | |
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| | 漏电流 Leakage Current | \leq 初始规定值 Not more than the initial specified value | | | | | | | | |

外形图及尺寸表 Case Size Table

Φ 4~ Φ 6.3



Φ 8~ Φ 12.5



单位 Unit: mm

| | 4x5.4 | 5x5.4 | 6.3x5.4 | 6.3x7.7 | 8x6.5 | 8x10.5 | 10x10.5 | 10x12.5 | 12.5x13.5 |
|---|---------|-------|---------|---------|-------|--------|---------|---------|-----------|
| A | 1.8 | 2.1 | 2.4 | 2.4 | 2.9 | 2.9 | 3.2 | 3.2 | 4.7 |
| B | 4.3 | 5.3 | 6.6 | 6.6 | 8.3 | 8.3 | 10.3 | 10.3 | 13 |
| C | 4.3 | 5.3 | 6.6 | 6.6 | 8.3 | 8.3 | 10.3 | 10.3 | 13 |
| E | 1.0 | 1.3 | 2.2 | 2.2 | 2.3 | 3.1 | 4.5 | 4.5 | 4.5 |
| L | 5.4 | 5.4 | 5.4 | 7.7 | 6.5 | 10.5 | 10.5 | 12.5 | 13.5 |
| H | 0.5~0.8 | | | | | | 0.8~1.1 | | |

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

| 电压WV (Vdc) | 容量Cap (μ F) | 产品尺寸 | 纹波电流 | 电压WV (Vdc) | 容量Cap (μ F) | 产品尺寸 | 纹波电流 | 电压WV (Vdc) | 容量Cap (μ F) | 产品尺寸 | 纹波电流 | 电压WV (Vdc) | 容量Cap (μ F) | 产品尺寸 | 纹波电流 |
|------------|------------------|---------|------|------------|------------------|---------|-------|------------|------------------|-----------|------|------------|------------------|-----------|------|
| 6.3 | 22 | 4x5.4 | 29 | 16 | 10 | 4x5.4 | 28 | 35 | 4.7 | 4x5.4 | 22 | 50 | 0.1 | 4x5.4 | 2.3 |
| | 33 | 4x5.4 | 26 | | 22 | 5x5.4 | 39 | | 10 | 5x5.4 | 30 | | 0.22 | 4x5.4 | 3.4 |
| | 47 | 5x5.4 | 46 | | 33 | 5x5.4 | 35 | | 22 | 6.3x5.4 | 60 | | 0.33 | 4x5.4 | 4.1 |
| | 100 | 5x5.4 | 50 | | 47 | 6.3x5.4 | 65 | | 33 | 6.3x5.4 | 62 | | 0.47 | 5x5.4 | 5 |
| | 220 | 6.3x5.4 | 76 | | 100 | 6.3x5.4 | 70 | | 47 | 6.3x7.7 | 80 | | 1 | 4x5.4 | 10 |
| | 330 | 6.3x7.7 | 123 | | 220 | 6.3x7.7 | 120 | | 68 | 6.3x7.7 | 82 | | 2.2 | 4x5.4 | 16 |
| | 470 | 8x10.5 | 330 | | 330 | 8x10.5 | 325 | | 100 | 8x10.5 | 296 | | 3.3 | 4x5.4 | 16 |
| | 1000 | 10x10.5 | 470 | | 470 | 8x10.5 | 340 | | 220 | 10x10.5 | 435 | | 4.7 | 5x5.4 | 23 |
| | 1500 | 10x10.5 | 490 | | 680 | 10x10.5 | 410 | | 330 | 10x10.5 | 450 | | 10 | 6.3x5.4 | 32 |
| | 2200 | 10x12.5 | 520 | | 1000 | 10x10.5 | 450 | | 470 | 12.5x13.5 | 550 | | 22 | 6.3x5.4 | 36 |
| 3300 | 12.5x13.5 | 650 | 1200 | 10x12.5 | 460 | 4.7 | 5x5.4 | 17 | 33 | 6.3x7.7 | 70 | 47 | 8x10.5 | 210 | |
| 10 | 22 | 4x5.4 | 21 | 25 | 10 | 4x5.4 | 27 | 63 | 10 | 6.3x5.4 | 22 | 100 | 10 | 6.3x7.7 | 58 |
| | 33 | 5x5.4 | 34 | | 22 | 5x5.4 | 44 | | 22 | 6.3x7.7 | 58 | | 100 | 8x10.5 | 230 |
| | 47 | 5x5.4 | 36 | | 47 | 6.3x5.4 | 70 | | 47 | 8x10.5 | 170 | | 220 | 10x10.5 | 375 |
| | 100 | 6.3x5.4 | 69 | | 68 | 6.3x5.4 | 75 | | 100 | 10x10.5 | 310 | | 470 | 12.5x13.5 | 570 |
| | 220 | 6.3x7.7 | 120 | | 100 | 6.3x7.7 | 100 | | 220 | 12.5x13.5 | 440 | | 10 | 6.3x7.7 | 32 |
| | 330 | 8x10.5 | 305 | | 220 | 8x10.5 | 320 | | 10 | 6.3x7.7 | 38 | | 22 | 8x10.5 | 100 |
| | 470 | 8x10.5 | 380 | | 330 | 10x10.5 | 450 | | 22 | 8x10.5 | 60 | | 33 | 10x10.5 | 150 |
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| | 1000 | 10x10.5 | 450 | | 560 | 10x12.5 | 510 | | 47 | 10x10.5 | 120 | | 100 | 12.5x13.5 | 230 |
| | 1500 | 10x12.5 | 480 | | 680 | 10x12.5 | 520 | | 100 | 12.5x13.5 | 230 | | | | |
| 2200 | 12.5x13.5 | 820 | 1000 | 12.5x13.5 | 650 | | | | | | | | | | |

I_r = Rated ripple current (mA) (105°C, 120Hz) I_r = 额定纹波电流 (mA) (105°C, 120Hz)

额定纹波电流频率修正系数 Frequency correction factor for ripple current

| Frequency 频率 | 50Hz | 120Hz | 300Hz | 1KHz | 10K~100Hz |
|----------------|------|-------|-------|------|-----------|
| Coefficient 系数 | 0.70 | 1.00 | 1.17 | 1.36 | 1.50 |

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