

VT 型片式铝电解电容

VT Series Chip Type Aluminum Electrolytic Capacitors

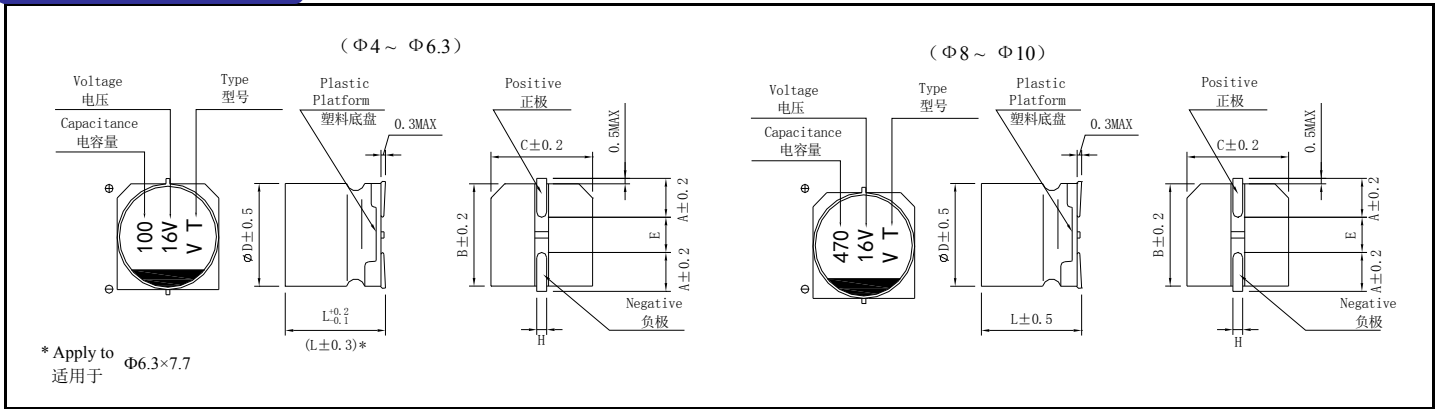
特点 Features

- 产品直径 Case diameter: Φ 4mm – Φ 10mm.
- 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 ($-40 \sim +105^{\circ}\text{C}$) 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 Characteristics | | | | | | | |
|---|--|---|------|------|------|------|------|------|
| 工作温度范围 Operating Temperature Range | -40 $^{\circ}\text{C}$ ~ +105 $^{\circ}\text{C}$ | | | | | | | |
| 额定电压范围 Rated Voltage Range | 6.3V ~ 50V | | | | | | | |
| 标称容量范围 Nominal Capacitance Range | 0.1 ~ 1500 μF | | | | | | | |
| 标称容量允许偏差 Nominal Capacitance Tolerance | $\pm 20\%$ (20 $^{\circ}\text{C}$, 120Hz) | | | | | | | |
| 漏电流 Leakage Current | $I \leq 0.01C_R V_R$ or 3(μA), 取较大者 (2分钟) C_R : 标称容量 (μF) U_R : 额定电压 (V) $I \leq 0.01C_R V_R$ or 3(μA) Whichever is greater (at 20 $^{\circ}\text{C}$, After 2 minutes) C_R : Nominal Capacitance (μF) U_R : Rated voltages (V) | | | | | | | |
| 损耗角正切 (tg δ) Dissipation Factor (Max) 20 $^{\circ}\text{C}$, 120Hz | U_R (V) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 |
| | tg δ | 0.35 | 0.28 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 |
| 耐久性 Load Life | +105 $^{\circ}\text{C}$ 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 $^{\circ}\text{C}$, the capacitor shall meet the following requirement: | | | | | | | |
| | 电容量变化率 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 $^{\circ}\text{C}$ 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 $^{\circ}\text{C}$, the capacitors shall meet the requirement of load life above | | | | | | | |
| 低温特性 Low Temperature Stability | U_R (V) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 |
| 阻抗比 Impedance Ratio (120Hz) | Z(-25 $^{\circ}\text{C}$)/Z(+20 $^{\circ}\text{C}$) | 7 | 4 | 3 | 2 | 2 | 2 | 2 |
| | Z(-40 $^{\circ}\text{C}$)/Z(+20 $^{\circ}\text{C}$) | 15 | 8 | 6 | 4 | 4 | 3 | 3 |
| 耐焊接热 Resistance to Soldering Heat | 在 250 $^{\circ}\text{C}$ 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 $^{\circ}\text{C}$ for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement. | | | | | | | |
| | 电容量变化率 Capacitance Change | $\pm 10\%$ 初始值以内 Within $\pm 10\%$ of the initial value | | | | | | |
| | 损耗角正切 (tg δ) 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 | | | | | | |

尺寸图 Dimensions



(mm)

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

■ 标称电容量、额定电压、额定纹波电流与外形尺寸对应表

Nominal capacitance, rated voltage, rated ripple current and case size table

| V μF | 6.3 | | 10 | | 16 | | 25 | | 35 | | 50 | |
|---------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|
| | D×L mm | I~ mA | D×L mm | I~ mA | D×L mm | I~ mA | D×L mm | I~ mA | D×L mm | I~ mA | D×L mm | I~ mA |
| 0.1 | | | | | | | | | | | 4×5.4 | 2.3 |
| 0.22 | | | | | | | | | | | 4×5.4 | 3.4 |
| 0.33 | | | | | | | | | | | 4×5.4 | 4.1 |
| 0.47 | | | | | | | | | | | 4×5.4 | 5 |
| 1.0 | | | | | | | | | | | 4×5.4 | 10 |
| 2.2 | | | | | | | | | | | 4×5.4 | 16 |
| 3.3 | | | | | | | | | 4×5.4 | 13 | 4×5.4 | 16 |
| 4.7 | | | | | | | 4×5.4 | 22 | 4×5.4 | 22 | 5×5.4 | 23 |
| 10 | | | | | 4×5.4 | 28 | 5×5.4 | 28 | 5×5.4 | 30 | 6.3×5.4 | 32 |
| 22 | 4×5.4 | 29 | 5×5.4 | 30 | 5×5.4 | 39 | 6.3×5.4 | 55 | 6.3×5.4 | 60 | 6.3×7.7 | 51 |
| 33 | 5×5.4 | 34 | 5×5.4 | 34 | 5×5.4 | 35 | 6.3×5.4 | 65 | 8×6.5 | 84 | 6.3×7.7 | 70 |
| 47 | 5×5.4 | 46 | 6.3×5.4 | 48 | 6.3×5.4 | 70 | 6.3×5.4 | 70 | 6.3×7.7 | 80 | 6.3×7.7 | 80 |
| 100 | 6.3×5.4 | 71 | 6.3×5.4 | 69 | 6.3×5.4 | 70 | 6.3×7.7 | 100 | 8×10.5 | 296 | 8×10.5 | 230 |
| 220 | 6.3×7.7 | 120 | 6.3×7.7 | 120 | 6.3×7.7 | 120 | 8×10.5 | 320 | 10×10.5 | 435 | 10×10.5 | 375 |
| 330 | 8×10.5 | 290 | 8×10.5 | 305 | 8×10.5 | 425 | 10×10.5 | 450 | 10×10.5 | 450 | | |
| 470 | 8×10.5 | 330 | 8×10.5 | 340 | 8×10.5 | 340 | 10×10.5 | 490 | | | | |
| 1000 | 8×10.5 | 340 | 10×10.5 | 410 | 10×10.5 | 450 | | | | | | |
| 1500 | 10×10.5 | 475 | | | | | | | | | | |

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

■ 额定纹波电流的频率系数 Frequency coefficient of 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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