

VS 型片式铝电解电容

VS Series Chip Type Aluminum Electrolytic Capacitors

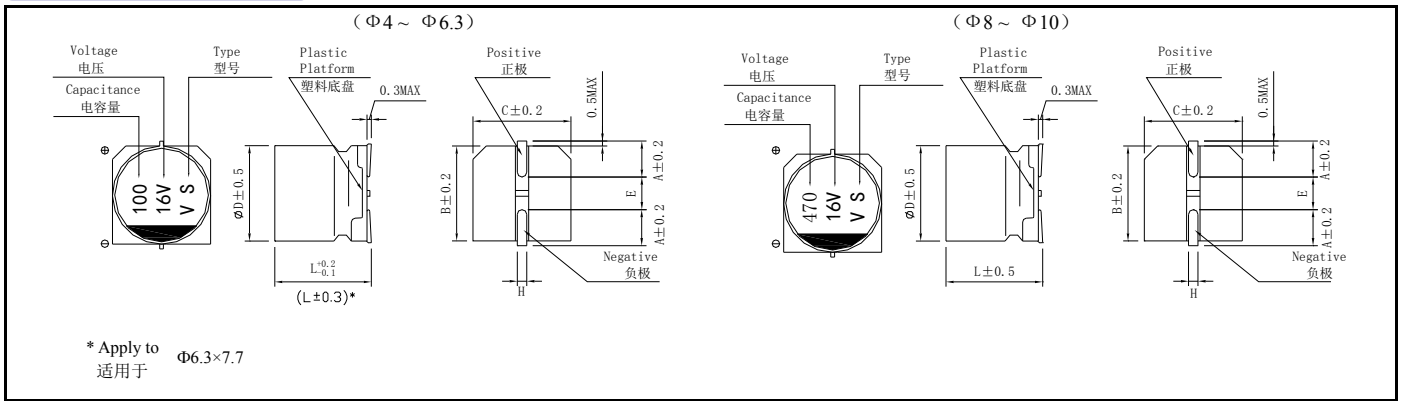
特点 Features

- 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.
- 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℃ ~ 85℃ | | | | | | | | | |
| 额定电压范围 Rated Voltage Range | 6.3V ~ 100V | | | | | | | | | |
| 标称容量范围 Nominal Capacitance Range | 0.1 ~ 1500 μ F | | | | | | | | | |
| 标称容量允许偏差 Nominal Capacitance Tolerance | \pm 20% (20℃, 120Hz) | | | | | | | | | |
| 漏电流 Leakage Current | $I \leq 0.01C_R V_R$ or 3(μ A), 取较大者 (2 分钟) C_R : 标称容量 (μ F) U_R : 额定电压 (V) $I \leq 0.01C_R V_R$ or 3(μ A) Whichever is greater(at 20℃, After 2 minutes) C_R : Nominal Capacitance (μ F) U_R : Rated voltages (V) | | | | | | | | | |
| 损耗角正切 (tg δ) Dissipation Factor (Max) 20℃, 120Hz | U_R (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | |
| | tg δ | 0.28 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.12 | 0.10 | |
| 耐久性 Load Life | +85℃施加额定电压 2000 小时后, 电容器应满足以下要求: After 2000 hours' application of rated voltage at 85℃, 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 | +85℃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 +85℃, 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) | | | | | | | | | |
| | $Z(-25^\circ\text{C})/Z(+20^\circ\text{C})$ | $< \Phi 8$ | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | $\geq \Phi 8$ | 5 | 4 | 3 | 2 | 2 | 2 | 2 | 2 |
| | $Z(-40^\circ\text{C})/Z(+20^\circ\text{C})$ | $< \Phi 8$ | 8 | 8 | 4 | 4 | 3 | 3 | 3 | 3 |
| $\geq \Phi 8$ | | 10 | 8 | 6 | 4 | 3 | 3 | 3 | 3 | |
| 耐焊接热 Resistance to Soldering Heat | 在 250℃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℃ 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 | | | | | | | | |

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

| μF | 6.3 | | 10 | | 16 | | 25 | | 35 | | 50 | | 63 | | 100 | |
|---------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| | 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 | D×L mm | I~ mA | D×L mm | I~ mA |
| 0.1 | | | | | | | | | | | 4×5.4 | 3.2 | | | | |
| 0.22 | | | | | | | | | | | 4×5.4 | 4.7 | | | | |
| 0.33 | | | | | | | | | | | 4×5.4 | 5.7 | | | | |
| 0.47 | | | | | | | | | | | 4×5.4 | 6.8 | | | | |
| 1.0 | | | | | | | | | | | 4×5.4 | 10 | | | | |
| 2.2 | | | | | | | | | | | 4×5.4 | 15 | | | | |
| 3.3 | | | | | | | | | | | 4×5.4 | 18 | | | | |
| 4.7 | | | | | | | 4×5.4 | 22 | 4×5.4 | 20 | 4×5.4 | 24 | | | 6.3×7.7 | 40 |
| | | | | | | | | | | | 5×5.4 | 25 | | | | |
| 10 | | | | | 4×5.4 | 26 | 4×5.4 | 24 | 4×5.4 | 24 | 5×5.4 | 41 | 6.3×7.7 | 50 | 8×10.5 | 77 |
| | | | | | | | 5×5.4 | 32 | 5×5.4 | 34 | 6.3×5.4 | 43 | | | | |
| 22 | 4×5.4 | 31 | 4×5.4 | 30 | 4×5.4 | 30 | 5×5.4 | 38 | 5×5.4 | 39 | 6.3×5.4 | 71 | 6.3×7.7 | 96 | 8×10.5 | 100 |
| | | | 5×5.4 | 39 | 5×5.4 | 44 | 6.3×5.4 | 55 | 6.3×5.4 | 59 | | | | | | |
| 33 | 4×5.4 | 31 | 4×5.4 | 34 | 5×5.4 | 44 | 5×5.4 | 46 | 6.3×5.4 | 65 | 6.3×7.7 | 94 | 8×10.5 | 117 | 10×10.5 | 130 |
| | 5×5.4 | 44 | 5×5.4 | 48 | 6.3×5.4 | 63 | 6.3×5.4 | 67 | | | | | | | | |
| 47 | 4×5.4 | 40 | 5×5.4 | 47 | 5×5.4 | 52 | 6.3×5.4 | 70 | 6.3×7.7 | 94 | 6.3×7.7 | 105 | 10×10.5 | 140 | | |
| | 5×5.4 | 52 | 6.3×5.4 | 67 | 6.3×5.4 | 75 | | | | | 8×10.5 | 140 | | | | |
| 100 | 5×5.4 | 47 | 5×5.4 | 54 | 6.3×5.4 | 103 | 6.3×7.7 | 143 | 6.3×7.7 | 132 | 8×10.5 | 200 | | | | |
| | 6.3×5.4 | 89 | 6.3×5.4 | 98 | | | | | | | 8×10.5 | 175 | 10×10.5 | 250 | | |
| 220 | 6.3×5.4 | 91 | 6.3×7.7 | 173 | 6.3×7.7 | 162 | 8×10.5 | 230 | 8×10.5 | 200 | 10×10.5 | 320 | | | | |
| | | | 8×6.5 | 250 | 8×10.5 | 280 | 10×10.5 | 310 | 10×10.5 | 310 | | | | | | |
| 330 | 6.3×7.7 | 188 | 8×10.5 | 390 | 8×10.5 | 320 | 8×10.5 | 270 | 10×10.5 | 360 | | | | | | |
| | | | | | | | 10×10.5 | 340 | | | | | | | | |
| 470 | 8×10.5 | 380 | 8×10.5 | 390 | 8×10.5 | 350 | 10×10.5 | 380 | | | | | | | | |
| | | | | | 10×10.5 | 420 | | | | | | | | | | |
| 1000 | 8×10.5 | 370 | 10×10.5 | 580 | | | | | | | | | | | | |
| | 10×10.5 | 700 | | | | | | | | | | | | | | |
| 1500 | 10×10.5 | 750 | | | | | | | | | | | | | | |

L I~ = Rated ripple current (mA) (85°C, 120Hz) I~ = 额定纹波电流 (mA) (85°C, 120Hz)

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