

VD 型片式铝电解电容

VD Series Chip Type Aluminum Electrolytic Capacitors

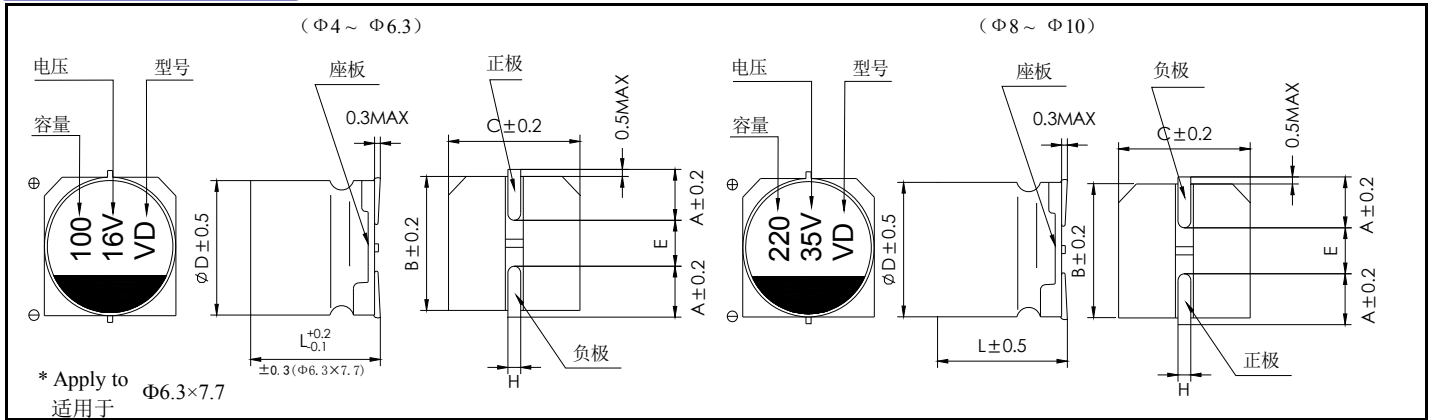
特点 Features

- 低阻抗。Low impedance.
- 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（-55℃ ~ +105℃）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 | -55℃ ~ +105℃ | | | | | | |
| 额定电压范围 Rated Voltage Range | 6.3V ~ 50V | | | | | | |
| 标称容量范围 Nominal Capacitance Range | 1 ~ 1000μF | | | | | | |
| 标称容量允许偏差 Nominal Capacitance Tolerance | ±20% (20℃, 120Hz) | | | | | | |
| 漏电流 Leakage Current | I ≤ 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 ≤ 0.01C _R V _R or 3(μA) Whichever is greater (at 20℃, after 2 minutes) C _R : Nominal Capacitance (μF) U _R : Rated voltages (V) | | | | | | |
| 损耗角正切 (tgδ) Dissipation Factor (Max) 20℃, 120Hz | U _R (V) | 6.3 | 10 | 16 | 25 | 35 | 50 |
| | tgδ | 0.26(0.28) | 0.20(0.24) | 0.16(0.20) | 0.14(0.16) | 0.12(0.14) | 0.12(0.14) |
| 注: () 为 Φ8 以上产品。 | | | | | | | |
| 耐久性 Load Life | +105℃施加额定电压 5000 小时后 (ΦD=4, 5 和 6.3 为 2000 小时), 电容器应满足以下要求: After 5000 hours (2000 hours for φD = 4, 5 and 6.3) . application of rated voltage at 105℃, the capacitor shall meet the following requirement: | | | | | | |
| | 容量变化率 Capacitance Change | ±30%初始值以内 Within ±30% of the initial value | | | | | |
| | 损耗角正切 Dissipation Factor | ≤ 300%初始规定值 Not more than 300% of the initial specified value | | | | | |
| | 漏电流 Leakage Current | ≤ 初始规定值 Not more than the initial specified value | | | | | |
| 高温贮存 Shelf Life | +105℃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℃, 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 |
| | Z(-25℃)/Z(+20℃) | 3 | 2 | 2 | 2 | 2 | 2 |
| | Z(-40℃)/Z(+20℃) | 5 | 4 | 4 | 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 | ±10%初始值以内 Within ±10% of the initial value | | | | | |
| | 损耗角正切 (tgδ) Dissipation Factor | ≤ 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 | | | | | |

尺寸图 Dimensions



* Apply to 适用于 $\Phi 6.3 \times 7.7$

(mm)

| | 4 × 5.4 | 5 × 5.4 | 6.3 × 5.4 | 6.3 × 7.7 | 8x10.5 | 10x10.5 |
|---|-----------|---------|-----------|-----------|---------|---------|
| A | 1.8 | 2.1 | 2.4 | 2.4 | 2.9 | 3.2 |
| B | 4.3 | 5.3 | 6.6 | 6.6 | 8.3 | 10.3 |
| C | 4.3 | 5.3 | 6.6 | 6.6 | 8.3 | 10.3 |
| E | 1.0 | 1.3 | 2.2 | 2.2 | 3.1 | 4.5 |
| L | 5.4 | 5.4 | 5.4 | 7.7 | 10.5 | 10.5 |
| H | 0.5 ~ 0.8 | | | | 0.8~1.1 | |

■ 标称容量、额定电压、额定纹波电流与外形尺寸对应表

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

| V | 6.3 | | | 10 | | | 16 | | | 25 | | | 35 | | | 50 | | |
|------|-----------|----------------|----------|-----------|----------------|----------|-----------|----------------|----------|-----------|----------------|----------|-----------|----------------|----------|-----------|----------------|----------|
| | D×L mm | Impedance Ω | I~ mA | D×L mm | Impedance Ω | I~ mA | D×L mm | Impedance Ω | I~ mA | D×L mm | Impedance Ω | I~ mA | D×L mm | Impedance Ω | I~ mA | D×L mm | Impedance Ω | I~ mA |
| 1.0 | | | | | | | | | | | | | | | | 4×5.4 | 5.00 | 30 |
| 2.2 | | | | | | | | | | | | | | | | 4×5.4 | 5.00 | 30 |
| 3.3 | | | | | | | | | | | | | | | | 4×5.4 | 5.00 | 30 |
| 4.7 | | | | | | | | | | | | | 4×5.4 | 1.8 | 80 | 5×5.4 | 1.52 | 85 |
| 10 | | | | | | | | | | 4×5.4 | 1.80 | 80 | 5×5.4 | 0.76 | 150 | 6.3×5.4 | 0.88 | 165 |
| 22 | | | | 4×5.4 | 1.80 | 80 | 5×5.4 | 0.76 | 150 | 5×5.4 | 0.76 | 150 | 5×5.4 | 0.76 | 150 | 6.3×5.4 | 0.88 | 165 |
| 33 | 5×5.4 | 0.76 | 150 | 5×5.4 | 0.76 | 150 | 6.3×5.4 | 0.44 | 230 | 6.3×5.4 | 0.44 | 230 | 6.3×5.4 | 0.44 | 230 | 6.3×7.7 | 0.68 | 185 |
| 47 | 5×5.4 | 0.76 | 150 | 6.3×5.4 | 0.44 | 230 | 6.3×5.4 | 0.44 | 230 | 6.3×5.4 | 0.44 | 230 | 6.3×7.7 | 0.34 | 280 | 8x10.5 | 0.34 | 350 |
| 100 | 6.3×5.4 | 0.44 | 230 | 6.3×5.4 | 0.44 | 230 | 6.3×5.4 | 0.44 | 230 | 6.3×7.7 | 0.34 | 280 | 8x10.5 | 0.17 | 600 | 10x10.5 | 0.18 | 670 |
| 220 | 6.3×5.4 | 0.44 | 230 | 6.3×7.7 | 0.34 | 280 | 6.3×7.7 | 0.34 | 280 | 8x10.5 | 0.17 | 600 | 10x10.5 | 0.09 | 850 | | | |
| 330 | 6.3×7.7 | 0.34 | 280 | 8x10.5 | 0.17 | 600 | 8x10.5 | 0.17 | 600 | 10x10.5 | 0.09 | 850 | | | | | | |
| 470 | 8x10.5 | 0.17 | 600 | 8x10.5 | 0.17 | 600 | 10x10.5 | 0.09 | 850 | | | | | | | | | |
| 1000 | 10x10.5 | 0.09 | 850 | 10x10.5 | 0.09 | 850 | | | | | | | | | | | | |

I~=Rated ripple current (mA) (105°C, 100kHz) I~=额定纹波电流 (mA) (105°C, 100kHz)

20°C 100kHz 时的电阻 (Ω) MAX

■ 额定纹波电流的频率系数

Frequency coefficient of ripple current

| Frequency 频率 | 50Hz | 120Hz | 300Hz | 1KHz | ≥ 10KHz |
|----------------|------|-------|-------|------|---------|
| Coefficient 系数 | 0.35 | 0.50 | 0.64 | 0.83 | 1.00 |

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