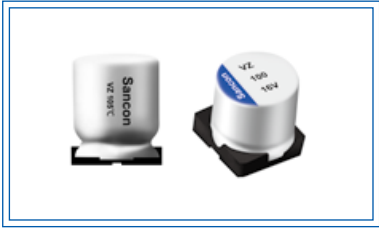


VZ 片式铝电解电容
SMD Aluminum Electrolytic Capacitors

- 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.

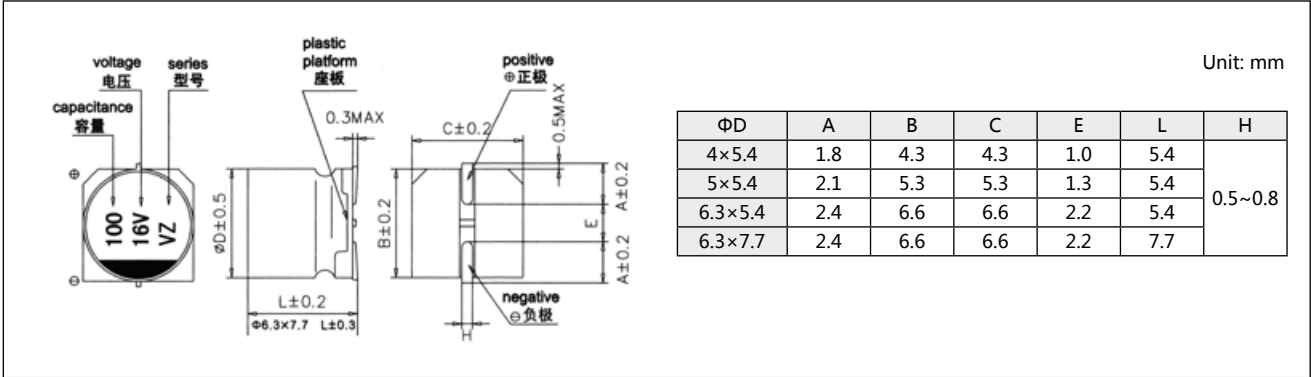


Surface Mount

主要技术性能 Specifications

| 项 目 Item | 特 性 Performance Characteristics | | | | | |
|--|---|---|------|------|------|------|
| 工作温度范围 Category Temperature Range | -55℃ ~ +105℃ | | | | | |
| 额定电压范围 Rated Voltage Range | 6.3~35V _{dc} | | | | | |
| 标称电容量允许偏差 Capacitance Tolerance | ±20% （+20℃，120Hz） | | | | | |
| 漏电流 Leakage Current | I ≤ 0.01C _R U _R or 3(μA), 取较大者（2分钟）Whichever is greater (at 20℃，after 2 minutes) C _R : 标称电容量 Nominal capacitance(μF), U _R : 额定电压 Rated voltage(V) | | | | | |
| 损失角正切值（tgδ） Dissipation Factor (Max) （+20℃,120Hz） | Rated Voltage(V _{dc}) | 6.3 | 10 | 16 | 25 | 35 |
| | tgδ(Max.) | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 |
| 耐久性 Endurance | +105℃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℃, the capacitor shall meet the following requirement: | | | | | |
| | 电容量变化率 Capacitance change | ±20% 初始测量值以内（≤ 16V: ±25% 初始测量值以内） Within ±20% of the initial value(≤ 16V: within ±25% of the initial value) | | | | |
| | 损失角正切值 Dissipation factor | ≤ 200% 初始规定值 Not more than 200% 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. | | | | | |
| 温度特性（阻抗比 Max.） Temperature characteristics (Max. Impedance ratio) （120Hz） | Rated Voltage(V _{dc}) | 6.3 | 10 | 16 | 25 | 35 |
| | Z(-25℃)/Z(+20℃) | 2 | 2 | 2 | 2 | 2 |
| | Z(-40℃)/Z(+20℃) | 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: | | | | | |
| | 电容量变化率 Capacitance change | ±10% 初始测量值以内 Within ±10% of the initial value | | | | |
| | 损失角正切值 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 | | | | |

外形图及尺寸 *Diagram of Dimensions*



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 Item Cap.(μF) | 6.3 | | | 10 | | | 16 | | | 25 | | | 35 | | |
|-----------------------|--------------|----------------|------------|--------------|----------------|------------|--------------|----------------|------------|--------------|----------------|------------|--------------|----------------|------------|
| | ΦD×L (mm) | Impedance Ω | I~ (mA) | ΦD×L (mm) | Impedance Ω | I~ (mA) | ΦD×L (mm) | Impedance Ω | I~ (mA) | ΦD×L (mm) | Impedance Ω | I~ (mA) | ΦD×L (mm) | Impedance Ω | I~ (mA) |
| 1.0 | | | | | | | | | | | | | 4×5.4 | 5.0 | 50 |
| 1.5 | | | | | | | | | | | | | 4×5.4 | 5.0 | 50 |
| 2.2 | | | | | | | | | | | | | 4×5.4 | 5.0 | 50 |
| 3.3 | | | | | | | | | | | | | 4×5.4 | 5.0 | 50 |
| 4.7 | | | | | | | | | | 4×5.4 | 5.0 | 50 | 4×5.4 | 5.0 | 50 |
| 6.8 | | | | | | | | | | 4×5.4 | 2.6 | 50 | 5×5.4 | 2.6 | 80 |
| 10 | | | | | | | 4×5.4 | 5.0 | 50 | 5×5.4 | 2.6 | 80 | 5×5.4 | 2.6 | 80 |
| 15 | | | | | | | 5×5.4 | 2.6 | 80 | 6.3×5.4 | 1.3 | 80 | 6.3×5.4 | 1.3 | 115 |
| 22 | 4×5.4 | 5.0 | 50 | 5×5.4 | 2.6 | 80 | 5×5.4 | 2.6 | 80 | 6.3×5.4 | 1.3 | 115 | 6.3×5.4 | 1.3 | 115 |
| 33 | 5×5.4 | 2.6 | 80 | 5×5.4 | 2.6 | 80 | 6.3×5.4 | 1.3 | 115 | 6.3×5.4 | 1.3 | 115 | 6.3×7.7 | 0.8 | 150 |
| 47 | 5×5.4 | 2.6 | 80 | 6.3×5.4 | 1.3 | 115 | 6.3×5.4 | 1.3 | 115 | 6.3×7.7 | 0.8 | 150 | 6.3×7.7 | 0.8 | 150 |
| 68 | 6.3×5.4 | 1.3 | 115 | 6.3×5.4 | 1.3 | 115 | 6.3×7.7 | 0.8 | 150 | 6.3×7.7 | 0.8 | 150 | | | |
| 100 | 6.3×5.4 | 1.3 | 115 | 6.3×7.7 | 0.8 | 150 | 6.3×7.7 | 0.8 | 150 | | | | | | |
| 150 | 6.3×7.7 | 0.8 | 150 | 6.3×7.7 | 0.8 | 150 | | | | | | | | | |
| 220 | 6.3×7.7 | 0.8 | 150 | | | | | | | | | | | | |

I~ = 额定纹波电流 Rated ripple current (mA) (105° C ,100KHz)
Low impedance (20° C ,100KHz)

额定纹波电流的频率系数 *Frequency coefficient of ripple current*

| | | | | | |
|----------------|------|-------|-------|------|----------------|
| Frequency 频率 | 50Hz | 120Hz | 300Hz | 1kHz | 10KHz ~ 100KHz |
| Coefficient 系数 | 0.64 | 0.50 | 0.64 | 0.83 | 1.00 |