

VK 片式铝电解电容
SMD Aluminum Electrolytic Capacitors

- 125°C 1000-1500 小时保证品。125°C 1000-1500 hrs guarantee.
- 产品尺寸：Φ6.3-Φ10mm。Size: Φ6.3-Φ10mm.
- 适用于车载电装品的高温用途。Available for electrical parts with high temperature.
- RoHS 指令 (2002/95/EC) 已对应完毕。Adapted to the RoHS directive.

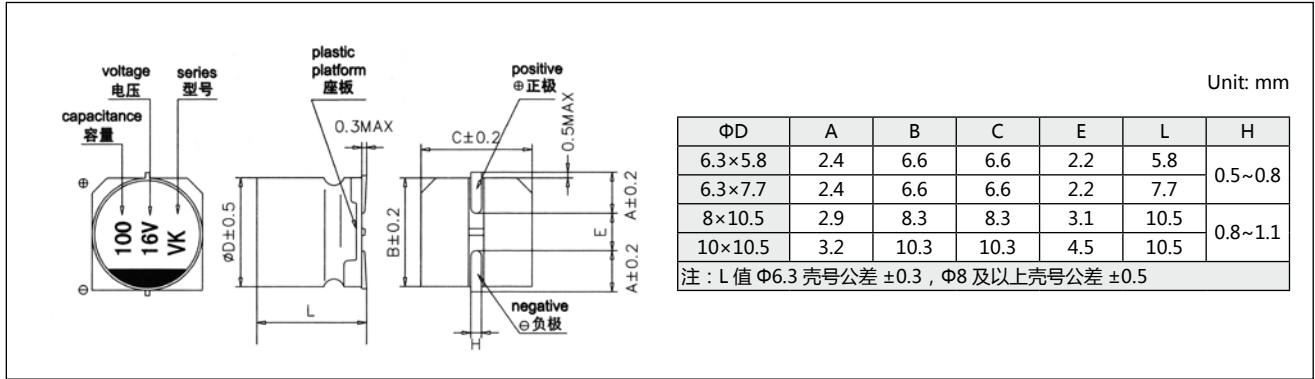


Surface Mount

主要技术性能 Specifications

| 项 目 Item | 特 性 Performance Characteristics | | | | | |
|--|---|---|------|------|------|------|
| 工作温度范围 Operating Temperature Range | -40°C ~ +125°C | | | | | |
| 额定电压范围 Rated Voltage Range | 10~50V | | | | | |
| 标称容量范围 Nominal Capacitance Range | 10~470μF | | | | | |
| 标称容量允许偏差 Capacitance Tolerance | ±20%(+20°C ,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°C , after 2 minutes) C _R : 标称容量 Nominal capacitance(μF), U _R : 额定电压 Rated voltage(V) | | | | | |
| 损耗角正切值 (tgδ) Dissipation Factor (Max) (+20°C ,120Hz) | U _R (V) | 10 | 16 | 25 | 35 | 50 |
| | tgδ | 0.30 | 0.24 | 0.20 | 0.17 | 0.14 |
| 耐久性 Load Life | +125°C连续加 1000~1500 小时额定电压后，电容器应满足以下要求： After 1000~1500 hours' application of rated voltage at 105°C , the capacitor shall meet the following requirement: | | | | | |
| | 规定时间 Specified time | Φ6.3*5.8~Φ6.3*7.7:1000 小时 Φ8*10.5~Φ10*10.5:1500 小时 | | | | |
| | 电容量变化率 Capacitance change | ±30% 初始测量值以内 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°C 贮存 1000 小时后，加额定工作电压 30 分钟，电容器应满足以上耐久性要求。 After storage for 1000 hours at 105°C ,U _R to be applied for 30 minutes,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) | 10 | 16 | 25 | 35 | 50 |
| | Z-25°C /+20°C | 6 | 5 | 4 | 3 | 3 |
| | Z-40°C /+20°C | 12 | 8 | 6 | 4 | 4 |
| 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: | | | | | |
| | 电容量变化率 Capacitance change | ±10% 初始测量值以内 Within ±10% of the initial value | | | | |
| | 损耗角正切 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*



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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

| WV (V_{dc}) | Cap. (μF) | $\Phi D \times L$ (mm) | I_{\sim} mA rms 120Hz/125°C | WV (V_{dc}) | Cap. (μF) | $\Phi D \times L$ (mm) | I_{\sim} mA rms 120Hz/125°C | |
|--------------------|---------------------|---------------------------|-------------------------------------|--------------------|---------------------|---------------------------|-------------------------------------|----|
| 10 | 68 | 6.3×5.8 | 50 | 35 | 10 | 6.3×5.8 | 50 | |
| | 100 | 6.3×7.7 | 75 | | 22 | 6.3×5.8 | 50 | |
| | 220 | 8×10.5 | 130 | | 33 | 6.3×7.7 | 70 | |
| | 330 | 8×10.5 | 130 | | 47 | 6.3×7.7 | 70 | |
| | 330 | 10×10.5 | 180 | | 47 | 8×10.5 | 130 | |
| | 470 | 10×10.5 | 180 | | 100 | 8×10.5 | 130 | |
| 16 | 33 | 6.3×5.8 | 50 | | 100 | 10×10.5 | 180 | |
| | 47 | 6.3×7.7 | 70 | | 220 | 10×10.5 | 180 | |
| | 100 | 6.3×7.7 | 75 | | 50 | 10 | 6.3×5.8 | 50 |
| | 100 | 8×10.5 | 130 | | | 22 | 6.3×7.7 | 70 |
| | 220 | 8×10.5 | 130 | 33 | | 6.3×7.7 | 70 | |
| | 220 | 10×10.5 | 180 | 33 | | 8×10.5 | 130 | |
| | 330 | 10×10.5 | 180 | 47 | | 8×10.5 | 130 | |
| 25 | 22 | 6.3×5.8 | 50 | 47 | | 10×10.5 | 180 | |
| | 33 | 6.3×5.8 | 50 | 100 | | 10×10.5 | 180 | |
| | 47 | 6.3×7.7 | 70 | | | | | |
| | 100 | 8×10.5 | 130 | | | | | |
| | 220 | 8×10.5 | 130 | | | | | |
| | 220 | 10×10.5 | 180 | | | | | |
| | 330 | 10×10.5 | 180 | | | | | |

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 | 0.85 | 1.0 | 1.17 | 1.36 | 1.50 |