

VZ 型片式铝电解电容

VZ Series Chip Type Aluminum Electrolytic Capacitors

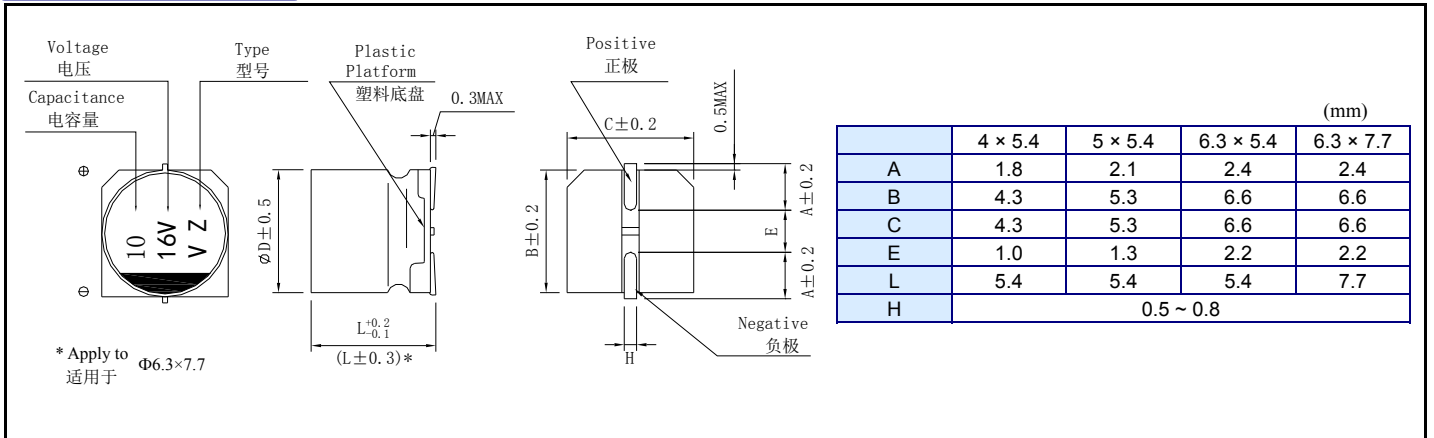
## 特点 Features

- 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 ~ 35V					
标称容量范围 Nominal Capacitance Range	1 ~ 220μF					
标称容量允许偏差 Nominal Capacitance Tolerance	±20% (20℃, 120Hz)					
漏电流 Leakage Current	I ≤ 0.01C <sub>R</sub> V <sub>R</sub> or 3(μA), 取较大者 (2 分钟) C <sub>R</sub> : 标称容量 (μF) U <sub>R</sub> : 额定电压 (V) I ≤ 0.01C <sub>R</sub> V <sub>R</sub> or 3(μA) Whichever is greater (at 20℃, after 2 minutes) C <sub>R</sub> : Nominal Capacitance (μF) U <sub>R</sub> : Rated voltages (V)					
损耗角正切 (tgδ) Dissipation Factor (Max) 20℃, 120Hz	U <sub>R</sub> (V)	6.3	10	16	25	35
	tgδ	0.22	0.19	0.16	0.14	0.12
耐久性 Load Life	+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:					
	容量变化率 Capacitance Change	±20%初始值以内 Within ±20% of the initial value				
	损耗角正切 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					
低温特性 Low Temperature Stability 阻抗比 Impedance Ratio (120Hz)	U <sub>R</sub> (V)	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.					
	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



■ 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		
	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	5.0	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	5.0	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	115	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~ = Rated ripple current (mA) (105°C, 100KHz) I~ = 额定纹波电流 (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~100Hz
Coefficient 系数	0.64	0.50	0.64	0.83	1.00