

# VZ 型片式铝电解电容

# VZ Series Chip Type Aluminum Electrolytic Capacitors



## 特点 Features

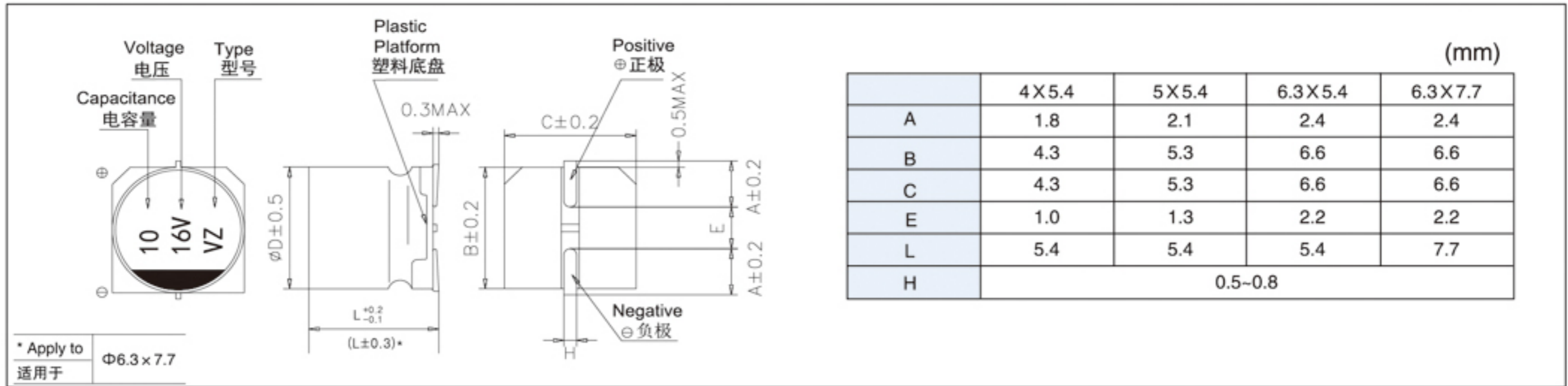
- ◎低阻抗。Low impedance.
- ◎适用于再流焊。Reflow soldering is available.
- ◎适用于高密度表面组装 available for high density surface mounting.
- ◎工作温度范围宽 ( -55℃~+105℃)。Operating over wide temperature range.
- ◎ROHS指令已对应完毕。Adapted to the ROHS directive.

## 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~35V					
标称电容容量范围 Nominal Capacitance Range	1~220 μF					
标称电容容量允许偏差 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> : 标称电容容量(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 2minutes) 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 1000hours' application of rated voltage at +105℃, the capacitor shall meet the following requirement:					
	电容量变化率 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				
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:					
	U <sub>R</sub> (V)	6.3	10	16	25	35
	Z(-25℃)/Z(+20℃)	2	2	2	2	2
低温特性 Low Temperature Stability	Z(-40℃)/Z(+20℃)	4	4	3	3	3
	阻抗比 Impedance Ratio (120Hz)					
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



Chip

◇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 μF	6.3			10			16			25			35		
	DxL mm	Impedance Ω	I~ mA	DxL mm	Impedance Ω	I~ mA	DxL mm	Impedance Ω	I~ mA	DxL mm	Impedance Ω	I~ mA	DxL mm	Impedance Ω	I~ mA
1.0													4X5.4	5.0	50
1.5													4X5.4	5.0	50
2.2													4X5.4	5.0	50
3.3													4X5.4	5.0	50
4.7										4X5.4	5.0	50	4X5.4	5.0	50
6.8										4X5.4	5.0	50	5X5.4	2.6	80
10							4X5.4	5.0	50	5X5.4	2.6	80	5X5.4	2.6	80
15							5X5.4	2.6	80	6.3X5.4	1.3	115	6.3X5.4	1.3	115
22	4X5.4	5.0	50	5X5.4	2.6	80	5X5.4	2.6	80	6.3X5.4	1.3	115	6.3X5.4	1.3	115
33	5X5.4	2.6	80	5X5.4	2.6	80	6.3X5.4	1.3	115	6.3X5.4	1.3	115	6.3X7.7	0.8	150
47	5X5.4	2.6	80	6.3X5.4	1.3	115	6.3X5.4	1.3	115	6.3X7.7	0.8	150	6.3X7.7	0.8	150
68	6.3X5.4	1.3	115	6.3X5.4	1.3	115	6.3X7.7	0.8	150	6.3X7.7	0.8	150			
100	6.3X5.4	1.3	115	6.3X7.7	0.8	150	6.3X7.7	0.8	150						
150	6.3X7.7	0.8	150	6.3X7.7	0.8	150									
220	6.3X7.7	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~100KHz
Coefficient 系数	0.64	0.50	0.64	0.83	1.00