

VZ 型片式铝电解电容

VZ Series Chip Type Aluminum Electrolytic Capacitors

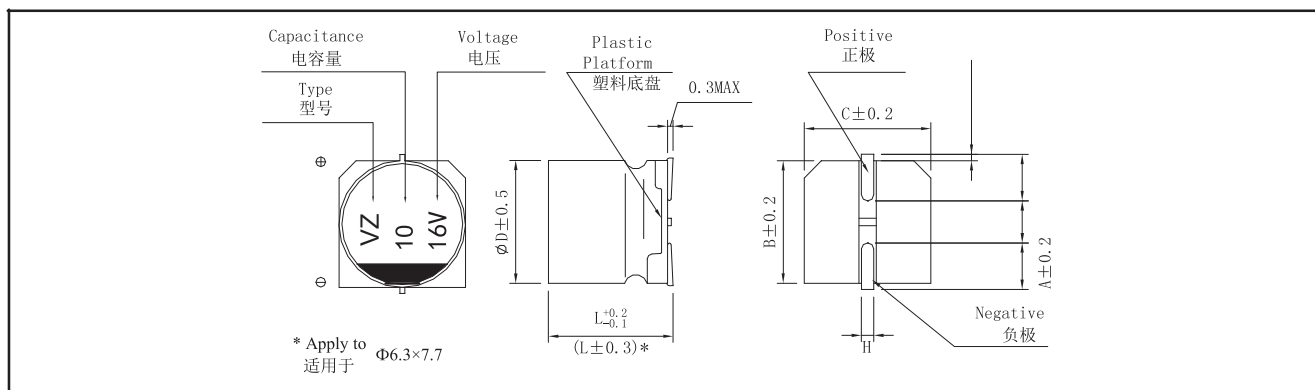
特点 Features

- 宽温低阻抗标准品。Wide temperature low impedance standard.
- 适用于回流焊。Reflow soldering is available.
- 适用于高密度表面贴装。Suitable for high density SMT.
- 符合ROHS指令标准。Comply with ROHS directive standards.

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 μ F					
标称电容容量允许偏差 Nominal Capacitance Tolerance	± 20% (20℃, 120Hz)					
漏电流 Leakage Current	I≤0.01CRVR or 3(μ A), 取较大者 (2 分钟) CR: 标称电容容量 (μ F) UR: 额定电压 (V) I≤0.01CRVR or 3(μ A) Whichever is greater(at 20℃, After 2 minutes) CR: Nominal Capacitance (μ F) UR: Rated voltages (V)					
损耗角正切 (tg δ) Dissipation Factor (Max) 20℃, 120Hz	UR (V)	6.3	10	16	25	35
	tg δ	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				
	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 +125℃, the capacitors shall meet the requirement of load life above					
低温特性 Low Temperature Stability 阻抗比 Impedance Ratio (120Hz)	UR (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.					
	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 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				

外形图及尺寸表 Case Size Table



	4x5.4	5x5.4	6.3x5.4	6.3x7.7
A	1.8	2.1	2.4	2.4
B	4.3	5.3	6.6	6.6
C	4.3	5.3	6.6	6.6
E	1.0	1.3	2.2	2.2
L	5.4	5.4	5.4	7.7
H	0.5 ~ 0.8			

■ 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	6.3			10			16			25			35		
μF	D×L mms	Impedance Ω	I~ mA	D×L mms	Impedance Ω	I~ mA	D×L mms	Impedance Ω	I~ mA	D×L mms	Impedance Ω	I~ mA	D×L mms	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	$\geq 10KHz$
Coefficient 系数	0.35	0.50	0.64	0.83	1.00