

# VJ 型片式铝电解电容

## VJ Series Chip Type Aluminum Electrolytic Capacitors

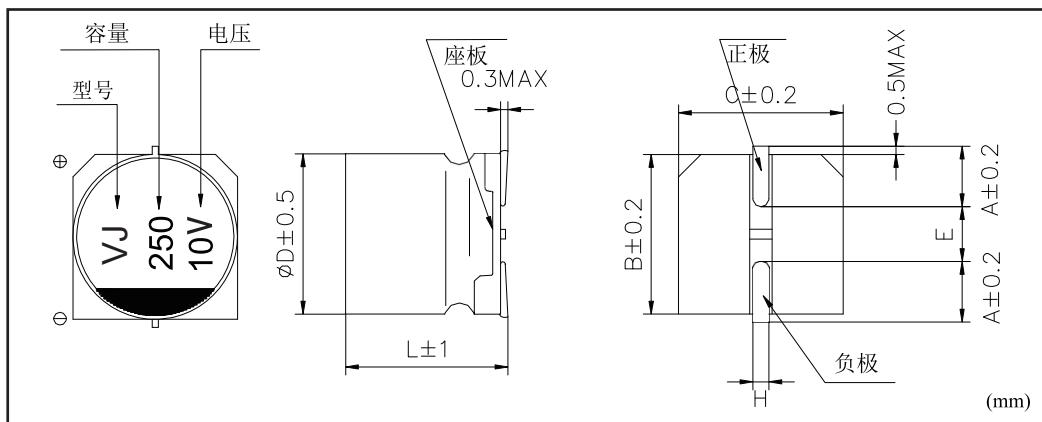
### 特点 Features

- 中高压宽温长寿命品。High voltage and long life and wide working temperature.
- 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	-40°C ~ +105°C		
额定电压范围 Rated Voltage Range	160V ~ 400V		
标称电容量范围 Nominal Capacitance Range	1 ~ 22μF		
标称电容量允许偏差 Nominal Capacitance Tolerance	± 20% ( 20°C, 120Hz )		
漏电流 Leakage Current	160V ~ 400V $I = 0.04 \text{ CRVR} + 100 (\mu\text{A}) \text{ max.(1 min)}$		
损耗角正切 ( tg δ ) Dissipation Factor (Max) 20°C, 120Hz	UR (V)	160 ~ 250	350 ~ 400
	tg δ	0.15	0.20
耐久性 Load Life	+105°C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°C, 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°C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°C, 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)	160 ~ 250	350 ~ 400
	Z(-25°C)/Z(+20°C)	3	6
	Z(-40°C)/Z(+20°C)	6	10
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



	Φ8X10.5	Φ8X12.5	Φ10X10.5	Φ10X12.5
A	2.9	2.9	3.2	3.2
B	8.3	8.3	10.3	10.3
C	8.3	8.3	10.3	10.3
E	3.1	3.1	4.5	4.5
L	10.5	12.5	10.5	12.5
H	0.8 ~ 1.1			

### ■ 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

容量 Ca ( $\mu$ A)	电压 WV (Vdc) 160		电压 WV (Vdc) 200		电压 WV (Vdc) 250		电压 WV (Vdc) 350		电压 WV (Vdc) 400	
	产品尺寸	纹波电流								
1									8*10.5	42
2.2							8*10.5	44	8*12.5	40
3.3			8*10.5	55	8*10.5	34	8*12.5	43	10*10.5	58
4.7	8*10.5	68	8*10.5	53	8*10.5	34	10*10.5	60	10*10.5	56
5.6	8*10.5	67	8*10.5	51	8*10.5	36	10*10.5	58	10*12.5	72
6.8	8*10.5	65	8*10.5	49	8*12.5	38	10*10.5	56	10*12.5	70
8.2	8*10.5	64	8*12.5	43	10*10.5	50	10*12.5	73	10*12.5	68
10	8*12.5	59	10*10.5	53	10*12.5	72	10*12.5	71	10*12.5	65
15	10*12.5	79	10*12.5	75						
22	10*12.5	72								

### ■ 额定纹波电流补偿系数

Rated ripple current compensation coefficient

Frequency 频率	50Hz	120Hz	300Hz	1KHz	$\geq 10\text{KHz}$
Coefficient 系数	0.80	1.00	1.25	1.40	1.60