

VJ 型片式铝电解电容

VJ Series Chip Type Aluminum Electrolytic Capacitors

特点 Features

- 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 mountin .
- ROHS 指令已对应完毕。Adapted to the ROHS directive.

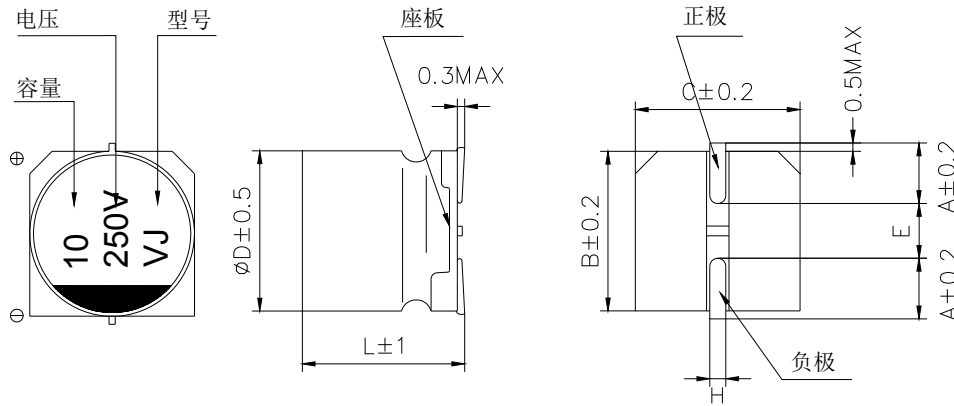
主要技术性能 Specifications

项目 Items	特性 Characteristics		
工作温度范围 Operating Temperature Range	-40~+105℃		
额定电压范围 Rated Voltage Range	160 ~ 400V		
标称容量范围 Nominal Capacitance Range	1 ~ 22μF		
标称容量允许偏差 Nominal Capacitance Tolerance	±20% (20℃, 120Hz)		
漏电流 Leakage Current	160~400V		
	$I = 0.04 C_R V_R + 100 (\mu A) \max.(1 \text{ min})$		
损耗角正切 (tgδ) Dissipation Factor (Max) 20℃, 120Hz	$U_R (V)$	160~250	350~400
	tgδ	0.15	0.20
耐久性 Load Life	+105℃施加额定电压 5000 小时后, 电容器应满足以下要求: After 5000 hours' 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 +105℃, the capacitors shall meet the requirement of load life above		
低温特性 Low Temperature Stability 阻抗比 Impedance Ratio (120Hz)	$U_R (V)$	160~250	350~400
	$Z(-25^\circ C)/Z(+20^\circ C)$	3	6
	$Z(-40^\circ C)/Z(+20^\circ C)$	6	10
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

■ 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



(mm)

	$\Phi 8 \times 10.5$	$\Phi 8 \times 12.5$	$\Phi 10 \times 10.5$	$\Phi 10 \times 12.5$
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			

V	160		200		250		350		400	
	D×L mm	I \sim mA	D×L mm	I \sim mA	D×L mm	I \sim mA	D×L mm	I \sim mA	D×L mm	I \sim mA
1								45	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

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