

# VJ 型片式铝电解电容

## VJ Series Chip Type Aluminum Electrolytic Capacitors



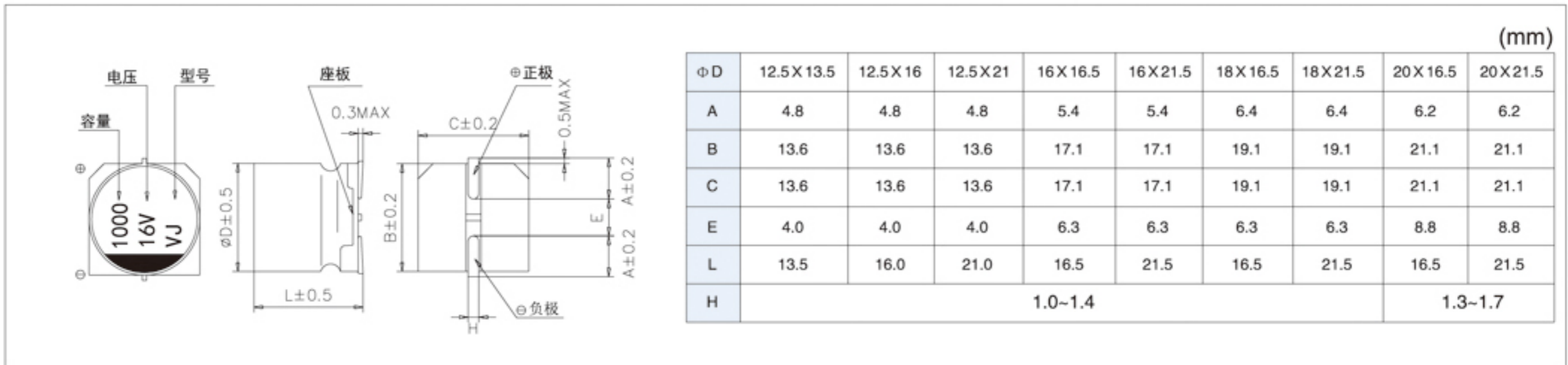
### ■ 特点 Features

- ◎ 适用于电容器尺寸较大情况 (Φ12.5, Φ16, Φ18, Φ20)。 higher capacitance in larger case sizes (Φ12.5, Φ16, Φ18, Φ20).
- ◎ 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	-55°C ~+105°C(6.3~+100V), -40~+105°C(160~450V)										
额定电压范围 Rated Voltage Range	6.3V~450V										
标称电容量范围 Nominal Capacitance Range	3.3~6800 μ F										
标称电容量允许偏差 Nominal Capacitance Tolerance	± 20%(20°C, 120Hz)										
漏电流 Leakage Current	6.3~100V					160~450V					
	$I \leq 0.03C_R V_R$ or 4(μA), 取较大者(1分钟) $C_R$ : 标称电容量(μF) $U_R$ : 额定电压(V) $I \leq 0.03C_R V_R$ or 4(μA) Whichever is greater (at 20°C, After 1 minutes) $C_R$ : Nominal Capacitance( μF) $U_R$ : Rated voltages(V)										
损耗角正切 (tg δ) Disspation Factor (Max)20°C, 120Hz	$U_R$ (V)	6.3	10	16	25	35					
	tgδ	0.26	0.22	0.18	0.16	0.14					
	$U_R$ (V)	50	63	100	160~250	400~450					
	tgδ	0.12	0.10	0.08	0.15	0.20					
注: 超过1000 μ F的产品, 每增加1000 μ F, 其值便增加0.02。 For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.											
耐久性 Load Life	+105°C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°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 Disspation Factor	≤ 200% 初始规定值 Not more than 200% of 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:										
	$U_R$ (V)	6.3	10	16	25	35	50	63	100	160~250	400~450
	Z(-25°C)/Z(+20°C)	5	4	3	2	2	5	2	2	3	6
Z(-40°C)/Z(+20°C)	10	8	6	4	3	3	3	3	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 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 (tg δ) Disspation 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	6.3		10		16		25		35		50	
	DxL mm	I~ mA	DxL mm	I~ mA	DxL mm	I~ mA	DxL mm	I~ mA	DxL mm	I~ mA	DxL mm	I~ mA
220									12.5 X 13.5	280	12.5 X 16	320
330							12.5 X 13.5	320	12.5 X 16	360	●16 X 16.5	440
470					12.5 X 13.5	360	12.5 X 16	400	●16 X 16.5	490	△18 X 16.5	550
1000					●16 X 16.5	630	△18 X 16.5	700	△18 X 16.5	750	18 X 21.5	820
2200	●16 X 16.5	750	●16 X 16.5	810	18 X 16.5	930	18 X 21.5	1050	20 X 21.5	1150		
3300	△18 X 16.5	930	△18 X 16.5	1000	18 X 21.5	1150						
4700	★18 X 21.5	1100	18 X 21.5	1200								
6800	20 X 21.5	1350	20 X 21.5	1450								

V	63		100		160		200		250		400		450	
	DxL mm	I~ mA	DxL mm	I~ mA	DxL mm	I~ mA	DxL mm	I~ mA	DxL mm	I~ mA	DxL mm	I~ mA	DxL mm	I~ mA
3.3													12.5 X 13.5	40
4.7									12.5 X 13.5	65	12.5 X 16	50	12.5 X 16	50
10							12.5 X 13.5	80	12.5 X 16	105	16 X 16.5	85	16 X 16.5	85
22							12.5 X 16	105	●16 X 16.5	180	18 X 21.5	130	18 X 21.5	130
33					12.5 X 13.5	95	●16 X 16.5	220	△18 X 16.5	230	20 X 21.5	160	20 X 21.5	160
47			12.5 X 13.5	160	●16 X 16.5	260	△18 X 16.5	270	★18 X 21.5	280				
68	12.5 X 13.5	175	12.5 X 16	205	△18 X 16.5	320	★18 X 21.5	330	20 X 21.5	340				
100	12.5 X 16	225	●16 X 16.5	285	★16 X 21.5	380	20 X 21.5	410						
220	●16 X 16.5	385	△18 X 16.5	440										
330	△18 X 16.5	490	20 X 21.5	500										
470	18 X 21.5	590												

●标记: 还可以对应φ12.5x21 △标记: 还可以对应φ16x21.5 ★标记: 还可以对应φ20x16.5  
I~=Rated ripple current(mA) (105°C, 120Hz) I~=额定纹波电流 (mA) (105°C,120Hz额定纹波电流的频率系数)

◇ 额定纹波电流的频率修正系数

Frequency coefficient of ripple current

V	Frequency Cap(μF)	50HZ	120HZ	300HZ	1KHz	10KHz or more
		6.3~100	<68	0.75	1.00	1.35
	100~470	0.80	1.00	1.23	1.34	1.50
	1000~6800	0.85	1.00	1.10	1.13	1.15
160~450	3.3~100	0.80	1.00	1.25	1.40	1.60