



# VP

## 铝电解电容器-贴片型

## Aluminum electrolytic capacitor- SMD type

### 特点 Features

- 产品直径 Case diameter:  $\Phi 4\sim\Phi 10\text{mm}$ .
- 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.
- RoHS指令已对应完毕。Adapted to the RoHS directive.
- 超低阻抗、105°C 2000小时保证品。  
Ultra low impedance and load life of 2000 hours at +105°C.

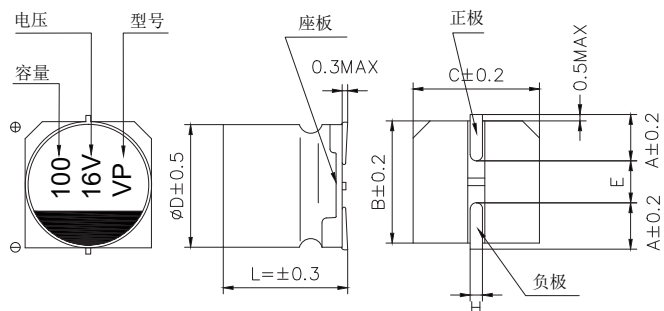


### 主要技术性能 Specifications

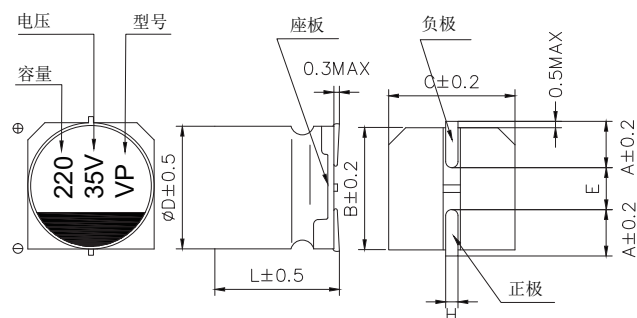
项目 Items	特性 Performance Characteristics						
工作温度范围 Operating Temperature Range	-55~+105°C						
额定电压范围 Rated Voltage Range	6.3~50V						
标称容量范围 Nominal Capacitance Range	10~2200 $\mu\text{F}$						
标称容量允许偏差 Capacitance Tolerance	$\pm 20\%$ (20°C, 120Hz)						
漏电流 Leakage Current	$I \leq 0.01\text{CRVR}$ or $3(\mu\text{A})$ , 取较大者 (2分钟) CR: 标称容量 ( $\mu\text{F}$ ) UR额定电压 (V) $I \leq 0.01\text{CRVR}$ or $3(\mu\text{A})$ Whichever is greater (at 20°C, after 2 minutes)						
损耗角正切 (tg $\delta$ ) Dissipation Factor (Max) 20°C, 120Hz	$U_r$ (V)	6.3	10	16	25	35	50
	tg $\delta$	0.26	0.19	0.16	0.14	0.12	0.10
耐久性 Load Life	+105°C施加额定电压2000小时后, 电容器应满足以下要求: After 2000 hours . application of rated voltage at 105°C, the capacitor shall meet the following requirement:						
	容量变化率 Capacitance Change	$\pm 30\%$ 初始值以内 Within $\pm 30\%$ of the initial value					
	损耗角正切 Dissipation Factor	$\leq 200\%$ 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, 加额定工作电压30分钟, 电容器应满足以上耐久性要求 After storage for 1000 hours at +105°C, UR to be applied for 30 minutes ,the capacitors shall meet the requirement of load life above						
	$U_g$ (V)	6.3	10	16	25	35	50
	Z(-25°C)/Z(+20°C)	2	2	2	2	2	2
低温特性 Low Temperature Stability 阻抗比 Impedance Ratio (120Hz)	Z(-40°C)/Z(+20°C)	3	3	3	3	3	3
	Z(-55°C)/Z(+20°C)	4	4	4	3	3	3
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.						
	容量变化率 Capacitance Change	$\pm 10\%$ 初始值以内 Within $\pm 10\%$ of the initial value					
	损耗角正切 Dissipation Factor	$\leq$ 初始规定值 Not more than the initial specified value					
漏电流 Leakage Current	$\leq$ 初始规定值 Not more than the initial specified value						

外形图及尺寸表 Case Size Table

Φ4~Φ6.3



Φ8~Φ10



单位 Unit: mm

	4×5.8	5×5.8	6.3×5.8	6.3×7.7	8×10.5	10×10.5
A	1.35	2.1	2.4	2.4	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1	4.5
L	5.8	5.8	5.8	7.7	10.5	10.5
H	0.5~0.8				0.8~1.1	

标称电容量、额定电压、额定纹波电流与尺寸对应表

Nominal Capacitance, Rated Voltage, Rated Ripple Current and Case Size Table

电压 WV (Vdc)	容量 Cap (μF)	产品 尺寸 Size	纹波电流 mArms 120Hz/125°C	等价串联 电阻(Ω) max/100k Hz	电压 WV (Vdc)	容量 Cap (μF)	产品尺寸 Size	纹波电流 mArms 120Hz/125°C	等价串联 电阻(Ω) max/100k Hz
6.3	100	4×5.8	160	0.85	25	33	4×5.8	160	0.85
	220	5×5.8	240	0.36		47	5×5.8	240	0.36
	330	6.3×5.8	300	0.26		100	6.3×5.8	300	0.26
	680	6.3×7.7	600	0.16		220	6.3×7.7	600	0.16
	1500	8×10.5	850	0.08		470	8×10.5	850	0.08
	2200	10×10.5	1190	0.06		820	10×10.5	1190	0.06
10	100	4×5.8	160	0.85	35	22	4×5.8	160	0.85
	150	5×5.8	240	0.36		47	5×5.8	240	0.36
	220	6.3×5.8	300	0.26		100	6.3×5.8	300	0.26
	470	6.3×7.7	600	0.16		150	6.3×7.7	600	0.16
	1000	8×10.5	850	0.08		330	8×10.5	850	0.08
	1500	10×10.5	1190	0.06		560	10×10.5	1190	0.06
16	47	4×5.8	160	0.85	50	10	4×5.8	85	2.3
	100	5×5.8	240	0.36		22	5×5.8	165	0.88
	220	6.3×5.8	300	0.26		47	6.3×5.8	195	0.68
	330	6.3×7.7	600	0.16		82	6.3×7.7	350	0.34
	680	8×10.5	850	0.08		150	8×10.5	670	0.18
	1000	10×10.5	1190	0.06		270	10×10.5	900	0.12

额定纹波电流频率修正系数

Frequency correction factor for ripple current

频率 (Hz)	120	1K	10K	100K
静电容量 (μF)				
22~150	0.40	0.75	0.90	1.0
220~560	0.50	0.85	0.94	1.0
680~2200	0.60	0.87	0.95	1.0

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