

# VU Series

## 性能特点 Feature

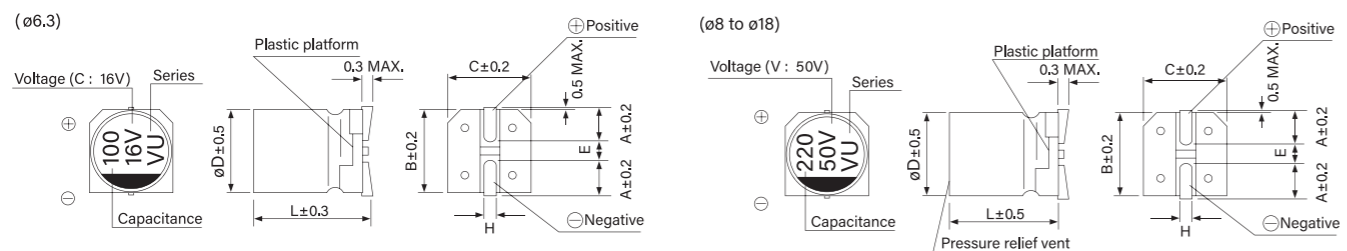
- 125°C 1000~2000 小时保证品 load life of 1000-2000 hours at 125°C
- 产品直径 Case diameter:  $\phi 6.3\text{mm} - \phi 18\text{mm}$ .
- 适用于高温用途 available for high temperature.
- ROHS 指令已对应完毕 Adapted to the ROHS directive.



## 技术性能 Specifications

项目 Item	特性 Performance Characteristics					
使用温度范围 Operating temperature range	-55~+125°C					
额定电压范围 Rated voltage range	10~50V					
标称容量范围 Nominal capacitance range	22~4700 $\mu\text{F}$					
标称容量允许偏差 Capacitance tolerance	$\pm 20\%$ (120Hz, +20°C)					
漏电流 Leakage current	$I \leq 0.01C_R V_R$ ( $\mu\text{A}$ ) or 3( $\mu\text{A}$ ) 2 分钟 取较大者 $C_R$ : 标称容量 ( $\mu\text{F}$ ) $U_R$ : 额定电压 (V) (at 20°C, after 2 minutes) (whichever is greater) $C_R$ : Nominal Capacitance $U_R$ : Rated voltage (V)					
损耗角正切值 (tg $\delta$ ) Dissipation factor (+20°C~120Hz)	$U_R$ (V)	10	16	25	35	50
	tg $\delta$	0.32	0.24	0.21	0.18	0.15
耐久性 Load life	+125°C 施加额定电压, 电容器应满足以下要求: Application of rated voltage at 125°C, the capacitor shall meet the following requirement: 规定时间 Specified time $\phi D \leq 8 \times 6.5$ 1000h; $\phi D \geq 8 \times 10.5$ 2000h 电容量变化率 Capacitance change: $\pm 30\%$ 初始测量值以内 Within $\pm 30\%$ of the initial value 漏电流 Leakage current: $\leq$ 初始规定值 $\leq$ the initial specified value 损耗角正切值 Dissipation factor: $\leq 300\%$ 初始规定值 $\leq 300\%$ of the initial specified value					
高温储存 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)	$U_R$ (V)	10	16	25	35	50
	Z-25°C/Z+20°C	6	5	4	3	3
耐焊接热 Resistance to Soldering Heat	Z-40°C/Z+20°C	12	8	6	4	4
	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: $\pm 10\%$ 初始测量值以内 Within $\pm 10\%$ of the initial value 漏电流 Leakage current: $\leq$ 初始规定值 $\leq$ the initial specified value 损耗角正切值 Dissipation factor: $\leq$ 初始规定值 $\leq$ the initial specified value					

## 尺寸和标记 Dimensions And Marking



\* 适用于 Apply to  $\phi 6.3 \times 7.7$

$\phi D$	6.3×5.4	6.3×7.7	8×10.5	10×10.5	12.5×13.5	16×16.5	18×16.5
A	2.4	2.4	2.9	3.2	4.8	5.8	6.8
B	6.6	6.6	8.3	10.3	13	17	19
C	6.6	6.6	8.3	10.3	13	17	19
E	2.2	2.2	3.1	4.5	4.4	6.4	6.4
L	5.4	7.7	10.5	10.5	13.5	16.5	21.5
H	0.5~0.8	0.5~0.8	1.1~1.4	1.1~1.4	1.1~1.4	1.1~1.4	1.1~1.4

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## 标准评级 Standard Ratings

额定纹波电流 Rated Ripple Current (mA, +125°C, 120Hz)

电压 $U_R$	10		16		25		35		50	
	Case Size $\phi D \times L$ (mm)	Rated Ripple Current	Case Size $\phi D \times L$ (mm)	Rated Ripple Current	Case Size $\phi D \times L$ (mm)	Rated Ripple Current	Case Size $\phi D \times L$ (mm)	Rated Ripple Current	Case Size $\phi D \times L$ (mm)	Rated Ripple Current
容量 $C_R$ ( $\mu\text{F}$ )										
22							6.3×5.4	50	6.3×7.7	75
33			6.3×5.4	50	6.3×5.4	50	6.3×7.7	70	8×10.5	130
47			6.3×7.7	70	6.3×7.7	70	6.3×7.7	75	8×10.5	130
68	6.3×5.4	50	6.3×7.7	75	6.3×7.7	75	8×10.5	130	10×10.5	180
100	6.3×7.7	75	6.3×7.7	75	8×10.5	130	10×10.5	180	12.5×13.5	357
220	8×10.5	130	10×10.5	180	10×10.5	180	12.5×13.5	357	12.5×16.5	400
330	8×10.5	130	12.5×13.5	480	12.5×13.5	480	16×16.5	650	16×16.5	650
470	12.5×13.5	480	12.5×13.5	480	12.5×13.5	480	16×16.5	650	16×16.5	650
680	12.5×13.5	480	12.5×13.5	480	12.5×16.5	585	16×16.5	650	18×16.5	855
1000	12.5×16.5	585	12.5×16.5	585	16×16.5	650	18×16.5	855		
1500	12.5×16.5	585	16×16.5	650	18×16.5	855				
2200	16×16.5	650	18×16.5	855						
3300	18×16.5	855								
4700	18×16.5	855								

\* 支持客户根据需求定制 Support Customer Customization According To Demand

## 允许纹波电流的频率校正系数 Frequency Correction Factor Of Allowable Ripple Current

Frequency 频率	50Hz	120Hz	300Hz	1KHz	10K~100Hz
Coefficient 系数	0.70	1.00	1.17	1.36	1.50