

# VD 片式铝电解电容 SMD Aluminum Electrolytic Capacitors

- 低阻抗。Low impedance.
- 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.
- 工作温度范围宽 (-55°C ~ +105°C)。Operating over wide temperature range.
- RoHS 指令已对应完毕。Adapted to the RoHS directive.

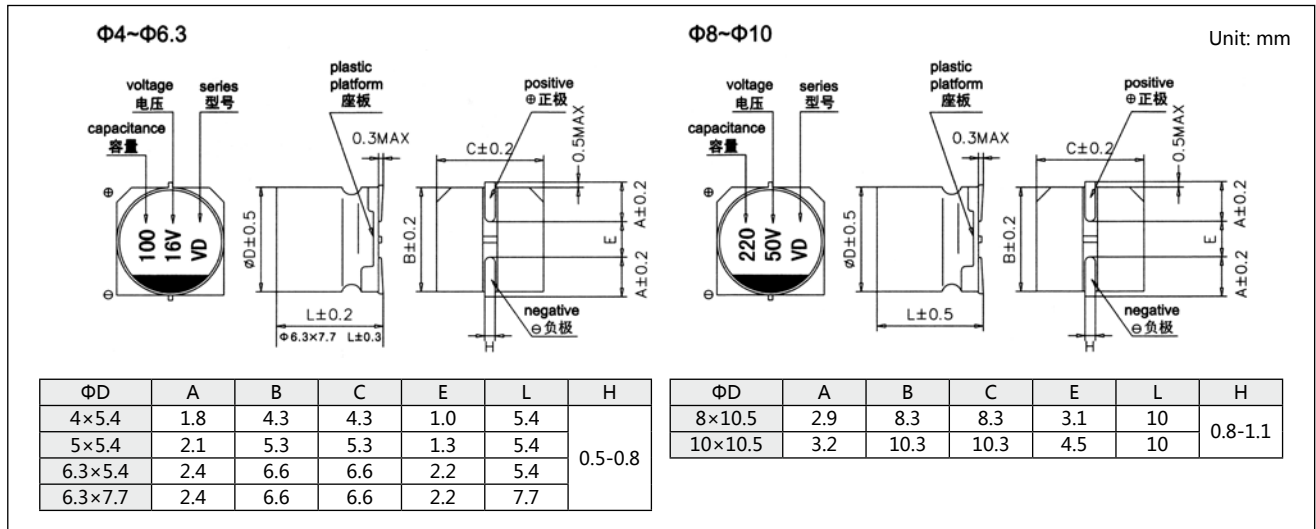


Surface Mount

## 主要技术性能 Specifications

项目 Item	特性 Performance Characteristics						
工作温度范围 Operating Temperature Range	-55°C ~ +105°C						
额定电压范围 Rated Voltage Range	6.3~50V						
标称容量范围 Nominal Capacitance Range	1~1500μF						
标称容量允许偏差 Capacitance Tolerance	±20%(+20°C, 120Hz)						
漏电流 Leakage Current	I ≤ 0.01C <sub>R</sub> U <sub>R</sub> or 3(μA), 取较大者 (2分钟) Whichever is greater (at 20°C, after 2 minutes) C <sub>R</sub> : 标称容量 Nominal capacitance(μF), U <sub>R</sub> : 额定电压 Rated voltage(V)						
损耗角正切值 (tgδ) Dissipation Factor (Max) (+20°C, 120Hz)	U <sub>R</sub> (V)	6.3	10	16	25	35	50
	tgδ	0.26(0.28)	0.20(0.24)	0.16(0.20)	0.14(0.16)	0.12(0.14)	0.12(0.14)
注: ( ) 为 ΦD>8 products							
耐久性 Load Life	+105°C施加额定电压 5000 小时后 (ΦD=4, 5 和 6.3 为 2000 小时), 电容器应满足以下要求: After 5000 hours(2000 hours for ΦD=4, 5 and 6.3) application of rated voltage at 105°C, the capacitor shall meet the following requirement:						
	容量变化率 Capacitance change	±30% 初始测量值以内 Within ±30% 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)	U <sub>R</sub> (V)	6.3	10	16	25	35	50
	Z-25°C / +20°C	3	2	2	2	2	2
	Z-40°C / +20°C	5	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	±10% 初始测量值以内 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 Diagram of Dimensions



标称容量、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					
	Item	ΦD×L (mm)	Impedance Ω	I~ (mA)	Item	ΦD×L (mm)	Impedance Ω	I~ (mA)	Item	ΦD×L (mm)	Impedance Ω	I~ (mA)	Item	ΦD×L (mm)	Impedance Ω	I~ (mA)	Item	ΦD×L (mm)	Impedance Ω	I~ (mA)	
1.0																		4×5.4	5.00	30	
2.2																		4×5.4	5.00	30	
3.3																		4×5.4	5.00	30	
4.7													4×5.4	1.80	80			5×5.4	1.52	85	
10										4×5.4	1.80	80	5×5.4	0.76	150			6.3×5.4	0.88	165	
15								4×5.4	1.80	80	5×5.4	0.76	150	5×5.4	0.76	150			6.3×5.4	0.88	165
22					4×5.4	1.80	80	5×5.4	0.76	80	5×5.4	0.76	80	5×5.4	0.76	150			6.3×5.4	0.88	165
27	4×5.4	1.80	80	5×5.4	0.76	150	5×5.4	0.76	150	6.3×5.4	0.44	230	6.3×5.4	0.44	230			6.3×7.7	0.68	185	
33	5×5.4	0.76	150	5×5.4	0.76	150	6.3×5.4	0.44	230	6.3×5.4	0.44	230	6.3×5.4	0.44	230			6.3×7.7	0.68	185	
47	5×5.4	0.76	150	6.3×5.4	0.44	230	6.3×5.4	0.44	230	6.3×5.4	0.44	230	6.3×5.4	0.44	230			6.3×7.7	0.68	185	
56	5×5.4	0.76	150	6.3×5.4	0.44	230	6.3×5.4	0.44	230	6.3×5.4	0.44	230	6.3×7.7	0.34	280			8×10.5	0.34	350	
68	6.3×5.4	0.44	230	6.3×5.4	0.44	230	6.3×5.4	0.44	230	6.3×5.4	0.44	230	6.3×7.7	0.34	280			8×10.5	0.34	350	
100	6.3×5.4	0.44	230	6.3×5.4	0.44	230	6.3×5.4	0.44	230	6.3×7.7	0.34	280	8×10.5	0.17	600			8×10.5	0.18	300	
150	6.3×5.4	0.44	230	6.3×5.4	0.44	230	6.3×7.7	0.34	280	8×10.5	0.17	600	8×10.5	0.17	600			10×10.5	0.18	670	
220	6.3×5.4	0.44	230	6.3×7.7	0.34	280	6.3×7.7	0.34	280	8×10.5	0.17	600	8×10.5	0.17	600			10×10.5	0.18	670	
330	6.3×7.7	0.34	280	8×10.5	0.17	600	8×10.5	0.17	600	8×10.5	0.17	600	10×10.5	0.09	850						
470	8×10.5	0.17	600	8×10.5	0.17	600	8×10.5	0.17	600	10×10.5	0.09	850									
680	8×10.5	0.17	600	10×10.5	0.09	670	10×10.5	0.09	850												
1000	8×10.5	0.17	600	10×10.5	0.09	850															
1500	10×10.5	0.09	850																		

I~ = 额定纹波电流 Rated ripple current (mA) (105° C ,100KHz)  
20° C ,100KHz 时的电阻 (Ω) MAX

额定纹波电流的频率系数 Frequency coefficient of ripple current

Frequency 频率	50Hz	120Hz	300Hz	1kHz	≥ 10KHz
Coefficient 系数	0.35	0.50	0.64	0.83	1.00