

**VS** 片式铝电解电容  
**SMD Aluminum Electrolytic Capacitors**

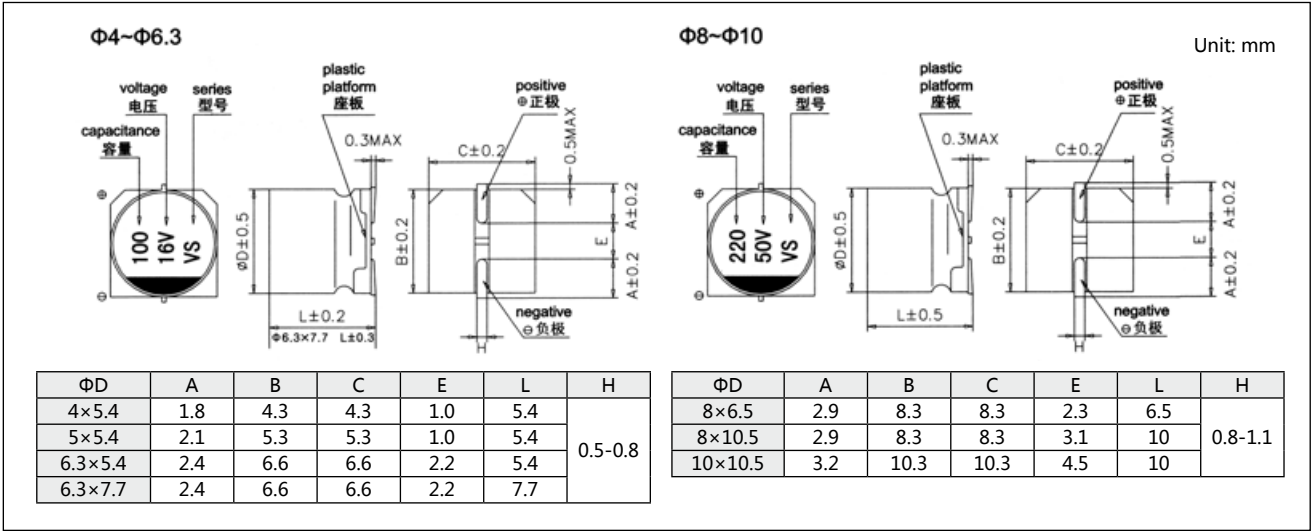
- 产品直径。Case diameter: Φ4mm-Φ10mm.
- 适用于再流焊。Reflow soldering is available.
- 适用于高密度表面组装。Available for high density surface mounting.
- RoHS 指令已对应完毕。Adapted to the RoHS directive.



### 主要技术性能 Specifications

项 目 Item	特 性 Performance Characteristics										
工作温度范围 Category Temperature Range	-40℃ ~ +85℃										
额定电压范围 Rated Voltage Range	4~100V <sub>dc</sub>										
标称电容量允许偏差 Capacitance Tolerance	±20% (+20℃ , 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℃ , after 2 minutes) C <sub>R</sub> : 标称电容量 Nominal capacitance(μF), U <sub>R</sub> : 额定电压 Rated voltage(V)										
损失角正切值 ( tgδ ) Dissipation Factor (Max) ( +20℃ ,120Hz )	Rated Voltage(V <sub>dc</sub> )	4	6.3	10	16	25	35	50	63	100	
	tgδ(Max.)	0.35	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.10	
耐久性 Endurance	+85℃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 85℃ , the capacitor shall meet the following requirement:										
	电容量变化率 Capacitance change	±20% 初始测量值以内 ( ≤ 16V: ±25% 初始测量值以内 ) Within ±20% of the initial value( ≤ 16V: within ±25% of the initial value)									
	损失角正切值 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	+85℃ 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 85℃ ,the capacitors shall meet the requirement of load life above.										
温度特性 ( 阻抗比 Max. ) Temperature characteristics (Max. Impedance ratio) ( 120Hz )	Rated Voltage(V <sub>dc</sub> )	4	6.3	10	16	25	35	50	63	100	
	Z-25℃ / +20℃	<φ8	7	4	3	2	2	2	2	2	2
		≥ φ8	7	5	4	3	2	2	2	2	2
	Z-40℃ / +20℃	<φ8	15	8	8	4	4	3	3	3	3
≥ φ8		15	10	8	6	4	3	3	3	3	
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% 初始测量值以内 Within ±10% of the initial value									
	损失角正切值 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 Item Cap.(μF)	4		6.3		10		16		25		35		50		63		100	
	ΦD×L (mm)	I~ (mA)	ΦD×L (mm)	I~ (mA)	ΦD×L (mm)	I~ (mA)	ΦD×L (mm)	I~ (mA)	ΦD×L (mm)	I~ (mA)	ΦD×L (mm)	I~ (mA)	ΦD×L (mm)	I~ (mA)	ΦD×L (mm)	I~ (mA)	ΦD×L (mm)	I~ (mA)
0.1													4×5.4	3.2				
0.22													4×5.4	4.7				
0.33													4×5.4	5.7				
0.47													4×5.4	6.8				
1.0													4×5.4	10				
2.2													4×5.4	15				
3.3													4×5.4	18				
4.7									4×5.4	22	4×5.4	20	4×5.4	24				
													5×5.4	25				
10							4×5.4	26	4×5.4	24	4×5.4	24	5×5.4	41			8×6.5	40
									5×5.4	32	5×5.4	34	6.3×5.4	43				
22			4×5.4	31	4×5.4	30	4×5.4	30	5×5.4	38	5×5.4	39	6.3×5.4	71	8×6.5	96	8×10.5	77
					5×5.4	39	5×5.4	44	6.3×5.4	55	6.3×5.4	59						
33	4×5.4	31	4×5.4	31	4×5.4	34	5×5.4	44	5×5.4	46	6.3×5.4	65	6.3×7.7	94	8×10.5	117	8×10.5	100
			5×5.4	44	5×5.4	48	6.3×5.4	63	6.3×5.4	67								
47	4×5.4	37	4×5.4	40	5×5.4	47	5×5.4	52	6.3×5.4	70	6.3×7.7	94	6.3×7.7	105	10×10.5	140	10×10.5	130
			5×5.4	52	6.3×5.4	67	6.3×5.4	75					8×10.5	140				
100	5×5.4	63	5×5.4	47	5×5.4	54	6.3×5.4	103	6.3×7.7	143	6.3×7.7	132	8×10.5	200				
			6.3×5.4	89	6.3×5.4	98			8×10.5	230	8×10.5	175	10×10.5	250				
220	6.3×5.4	110	6.3×5.4	91	6.3×7.7	173	6.3×7.7	162	8×10.5	230	8×10.5	200	10×10.5	320				
					8×6.5	250	8×10.5	280	8×10.5	310	10×10.5	310						
330			6.3×7.7	188	8×10.5	390	8×10.5	320	8×10.5	270	10×10.5	360						
									10×10.5	340								
470			8×10.5	380	8×10.5	390	8×10.5	350	10×10.5	380								
								10×10.5	420									
1000			8×10.5	370	10×10.5	580												
			10×10.5	700														
1500			10×10.5	750														

I~ = 额定纹波电流 Rated ripple current (mA)(+85° C, 120Hz)

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

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