

VL 片式铝电解电容
SMD Aluminum Electrolytic Capacitors

- +105°C 5000 小时保证品。Load life of 5000 hours at +105°C .
- 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.

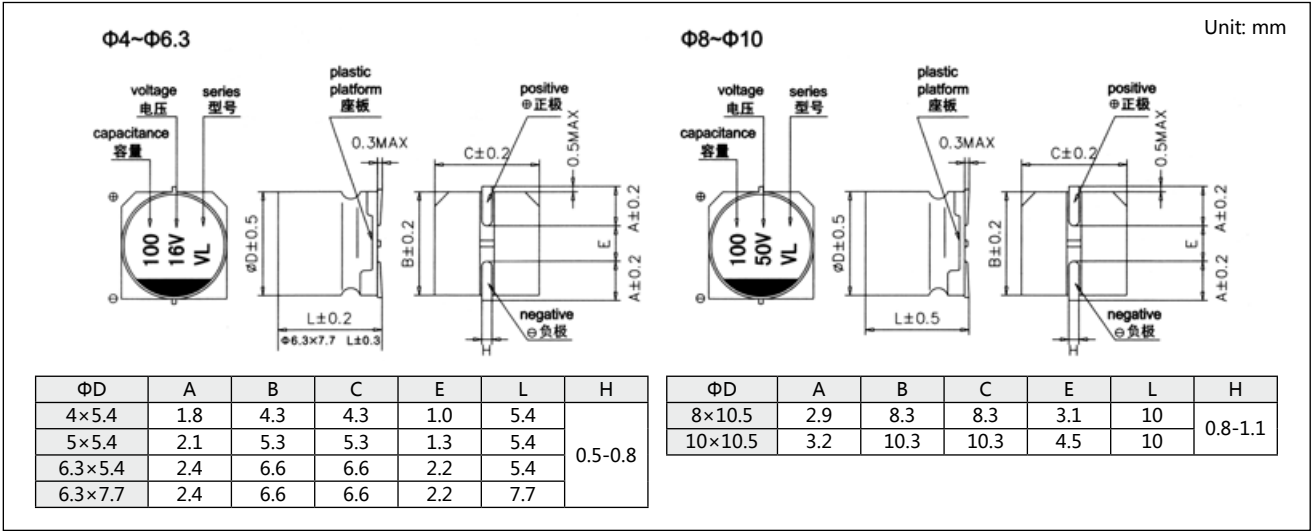


Surface Mount

主要技术性能 Specifications

项 目 Item	特 性 Performance Characteristics						
工作温度范围 Category Temperature Range	-40℃ ~+105℃						
额定电压范围 Rated Voltage Range	6.3~50V _{dc}						
标称电容量允许偏差 Capacitance Tolerance	±20% （+20℃ , 120Hz）						
漏电流 Leakage Current	I ≤ 0.01C _R U _R or 3(μA), 取较大者（ 2 分钟 ） Whichever is greater (at 20℃ , after 2 minutes) C _R : 标称电容量 Nominal capacitance(μF), U _R : 额定电压 Rated voltage(V)						
损失角正切值（ tgδ ） Dissipation Factor (Max) （ +20℃ ,120Hz ）	Rated Voltage(V _{dc})	6.3	10	16	25	35	50
	tgδ(Max.)	0.32	0.24	0.20	0.16	0.13	0.12
耐久性 Endurance	+105℃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℃ , the capacitor shall meet the following requirement:						
	电容量变化率 Capacitance change	±30% 初始测量值以内 Within ±30% of the initial value					
	损失角正切值 Dissipation factor	≤ 300% 初始规定值 Not more than 300% 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℃ 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℃ ,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 _{dc})	6.3	10	16	25	35	50
	Z(-25℃)/Z(+20℃)	4	3	2	2	2	2
	Z(-40℃)/Z(+20℃)	10	7	5	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)	6.3		10		16		25		35		50	
	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	2.4
0.22											4×5.4	3.5
0.33											4×5.4	4.3
0.47											4×5.4	5.1
1.0											4×5.4	7.4
2.2											4×5.4	11
3.3											4×5.4	14
4.7									4×5.4	15	5×5.4	19
10					4×5.4	19	5×5.4	25	5×5.4	25	6.3×5.4	32
22			5×5.4	30	5×5.4	33	6.3×5.4	42	6.3×5.4	45	6.3×7.7	49
33	5×5.4	35	5×5.4	38	6.3×5.4	48	6.3×5.4	48	6.3×7.7	57	8×10.5	77
47	5×5.4	42	6.3×5.4	52	6.3×5.4	57	6.3×7.7	63	8×10.5	92	10×10.5	92
100	6.3×5.4	67	6.3×5.4	72	6.3×7.7	81	8×10.5	130	10×10.5	151	10×10.5	94
220	6.3×7.7	101	8×10.5	160	10×10.5	220	10×10.5	216	10×10.5	216		
330	8×10.5	230	10×10.5	238	10×10.5	238	10×10.5	238				
470	10×10.5	340	10×10.5	340	10×10.5	340						
1000	10×10.5	340										

I~ = 额定纹波电流 Rated ripple current (mA)(+105° 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	≥ 10KHz
Coefficient 系数	0.70	1.00	1.17	1.36	1.50