VS 型片式铝电解电容
VS Series Chip Type Aluminum Electrolytic Capacitors

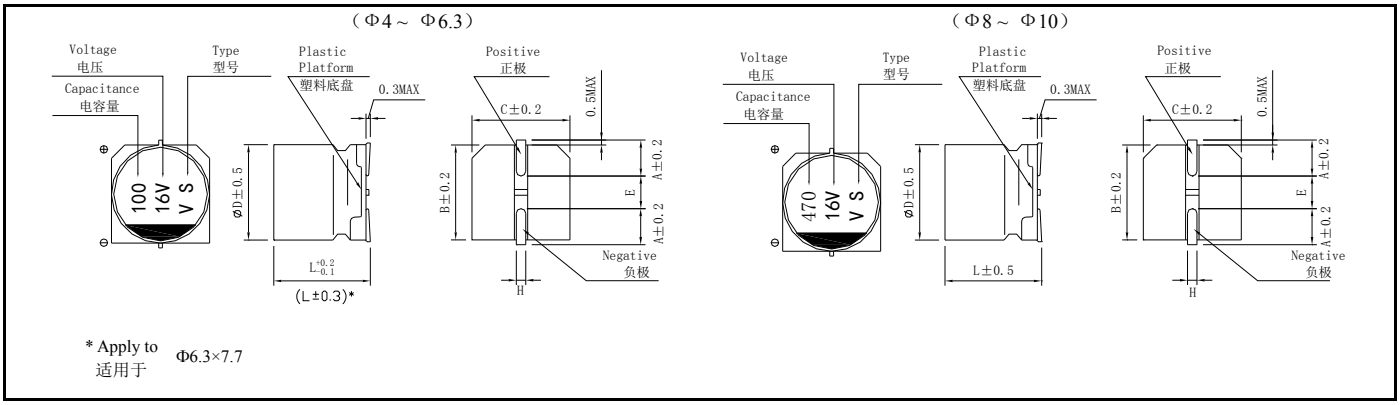
特点 Features

- 产品直径 Case diameter: Φ 4mm – Φ 10mm.
- 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 Items	特性 Characteristics								
工作温度范围 Operating Temperature Range	-40℃ ~ 85℃								
额定电压范围 Rated Voltage Range	6.3V ~ 100V								
标称电容量范围 Nominal Capacitance Range	0.1 ~ 1500μF								
标称电容量允许偏差 Nominal Capacitance Tolerance	±20%（20℃，120Hz）								
漏电流 Leakage Current	I≤0.01$C_R V_R$ or 3(μA)，取较大者（2 分钟） C_R：标称电容量（μF） U_R：额定电压（V） I≤0.01$C_R V_R$ or 3(μA) Whichever is greater(at 20℃, After 2 minutes) C_R: Nominal Capacitance (μF) U_R: Rated voltages (V)								
损耗角正切（tgδ） Dissipation Factor (Max) 20℃, 120Hz	U_R (V)	6.3	10	16	25	35	50	63	100
	tgδ	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.10
耐久性 Load Life	+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%初始值以内 Within ±20% 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	+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								
低温特性 Low Temperature Stability 阻抗比 Impedance Ratio (120Hz)	U_R (V)		6.3	10	16	25	35	50	63	100
	Z(-25℃)/Z(+20℃)	＜ Φ8	4	3	2	2	2	2	2	2
		≥ Φ8	5	4	3	2	2	2	2	2
	Z(-40℃)/Z(+20℃)	＜ Φ8	8	8	4	4	3	3	3	3
		≥ Φ8	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							

尺寸图 Dimensions



(mm)

	4 × 5.4	5 × 5.4	6.3 × 5.4	6.3 × 7.7	8× 6.5	8× 10.5	10 × 10.5
A	1.8	2.1	2.4	2.4	2.9	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3
E	1.0	1.3	2.2	2.2	2.3	3.1	4.5
L	5.4	5.4	5.4	7.7	6．5	10.5	10.5
H	0.5 ~ 0.8					0．8~1。1	

■ 标称电容量、额定电压、额定纹波电流与外形尺寸对应表

Nominal capacitance, rated voltage, rated ripple current and case size table

μF	6.3		10		16		25		35		50		63		100	
	D×L mm	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA	D×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			6.3×7.7	40
											5×5.4	25				
10					4×5.4	26	4×5.4	24	4×5.4	24	5×5.4	41	6.3×7.7	50	8×10.5	77
							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	6.3×7.7	96	8×10.5	100
			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	34	5×5.4	44	5×5.4	46	6.3×5.4	65	6.3×7.7	94	8×10.5	117	10×10.5	130
	5×5.4	44	5×5.4	48	6.3×5.4	63	6.3×5.4	67								
47	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		
	5×5.4	52	6.3×5.4	67	6.3×5.4	75					8×10.5	140				
100	5×5.4	47	5×5.4	54	6.3×5.4	103	6.3×77	143	6.3×7.7	132	8×10.5	200				
	6.3×5.4	89	6.3×5.4	98					8×10.5	175	10×10.5	250				
220	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	10×10.5	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~=Rated ripple current (mA) (85℃, 120Hz)　I~=额定纹波电流（mA）（85℃，120Hz）

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