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 Performance 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≤0.01CRVR or 3(μA)，取较大者（2分钟）CR：标称电容量（μF） UR：额定电压（V） I≤0.01CRVR or 3(μA) Whichever is greater(at 20℃, After 2 minutes) CR: Nominal Capacitance (μF) UR: 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

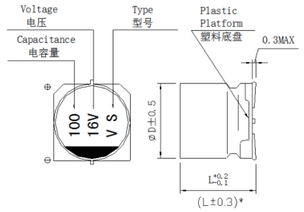
耐焊接热
Resistance to Soldering Heat

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.

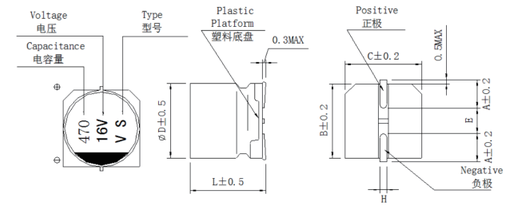
电容量变化率 Capacitance Change	±10%初始值以内 Within ±10% of the initial value
损耗角正切 Dissipation Factor	≤初始规定值 Not more than the initial specified value
漏电流 Leakage Current	≤ 初始规定值 Not more than the initial specified value

外形图及尺寸表 Case Size Table

（Φ4～ Φ6.3）



（Φ8～ Φ10）



* Apply to 适用于 Φ6.3、7.7

(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、额定纹波电流与尺寸对应表
Nominal Capacitance, Rated Voltage, Rated Ripple Current and Case Size Table

μF \ V	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 5×5.4	24 25			6.3×7.7	40
10					4×5.4	26	4×5.4 5×5.4	24 32	4×5.4 5×5.4	24 34	5×5.4 6.3×5.4	41 43	6.3×7.7	50	8×10.5	77
22	4×5.4	31	4×5.4 5×5.4	30 39	4×5.4 5×5.4	30 44	5×5.4 6.3×5.4	38 55	5×5.4 6.3×5.4	39 59	6.3×5.4	71	6.3×7.7	96	8×10.5	100
33	4×5. 4 5×5.4	31 44	4×5.4 5×5.4	34 48	5×5.4 6.3×5.4	44 63	5×5.4 6.3×5.4	46 67	6.3×5.4	65	6.3×7.7	94	8×10.5	117	10×10.5	130
47	4×5.4 5×5.4	40 52	5×5.4 6.3×5.4	47 67	5×5.4 6.3×5.4	52 75	6.3×5.4	70	6.3×7.7	94	6.3×7.7 8×10.5	105 140	10×10.5	140		
100	5×5.4 6.3×5.4	47 89	5×5.4 6.3×5.4	54 98	6.3×5.4	103	6.3×77	143	6.3×7.7 8×10.5	132 175	8×10.5 10×10.5	200 250				
220	6.3×5.4	91	6.3×7.7 8×6.5	173 250	6.3×7.7 8×10.5	162 280	8×10.5 10×10.5	230 310	8×10.5 10×10.5	200 310	10×10.5	320				
330	6.3×7.7	188	8×10.5	390	8×10.5	320	8×10.5 10×10.5	270 340	10×10.5	360						
470	8×10.5	380	8×10.5	390	8×10.5 10×10.5	350 420	10×10.5	380								
1000	8×10.5 10×10.5	370 700	10×10.5	580												
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I~=Rated ripple current (mA) (85℃, 120Hz) I~=额定纹波电流（mA）（85℃，120Hz）

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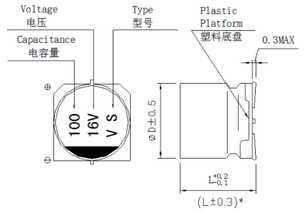

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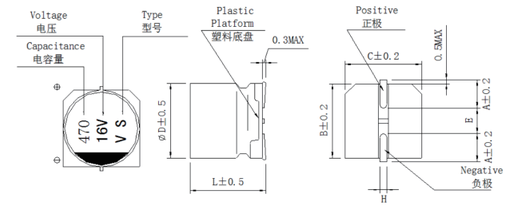

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22	4×5.4	31	4×5.4 5×5.4	30 39	4×5.4 5×5.4	30 44	5×5.4 6.3×5.4	38 55	5×5.4 6.3×5.4	39 59	6.3×5.4	71	6.3×7.7	96	8×10.5	100
33	4×5. 4 5×5.4	31 44	4×5.4 5×5.4	34 48	5×5.4 6.3×5.4	44 63	5×5.4 6.3×5.4	46 67	6.3×5.4	65	6.3×7.7	94	8×10.5	117	10×10.5	130
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