

VS
VS

型片式铝电解电容

Series Chip Type Aluminum Electrolytic Capacitors



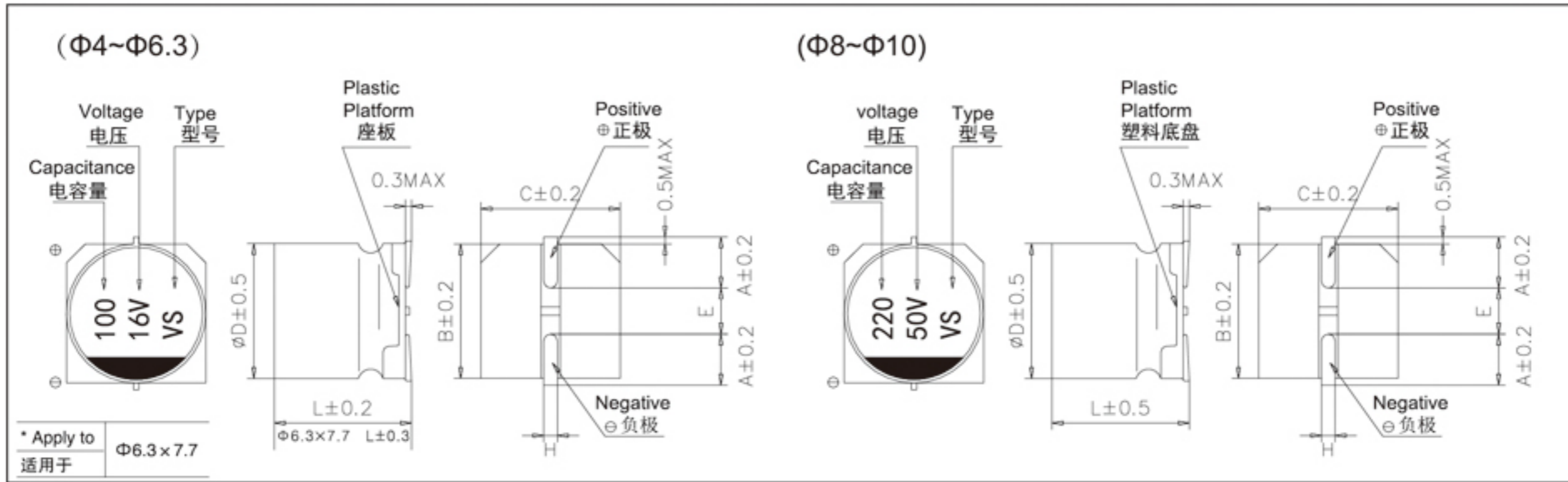
■ 特点 Features

- ◎ 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°C ~ 85°C									
额定电压范围 Rated Voltage Range	6.3V ~ 100V									
标称容量范围 Nominal Capacitance Range	0.1 ~ 1500 μ F									
标称容量允许偏差 Nominal Capacitance Tolerance	$\pm 20\%$ (20°C, 120Hz)									
漏电流 Leakage Current	$I \leq 0.01CRVR$ or $3(\mu A)$, 取较大者 (2分钟) CR: 标称容量 (μF) UR: 额定电压 (V) $I \leq 0.01CRVR$ or $3(\mu A)$ Whichever is greater(at 20°C, After 2 minutes) CR: Nominal Capacitance (μF) UR: Rated voltages (V)									
损耗角正切 ($\text{tg } \delta$) Dissipation Factor (Max) 20°C, 120Hz	UR (V)	6.3	10	16	25	35	50	63	100	
	$\text{tg } \delta$	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.10	
耐久性 Load Life	+85°C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°C, the capacitor shall meet the following requirement:									
	容量变化率 Capacitance Change	$\pm 20\%$ 初始值以内 Within $\pm 20\%$ of the initial value								
	损耗角正切 Dissipation Factor	$\leq 200\%$ 初始规定值 Not more than 200% of the initial specified value								
	漏电流 Leakage Current	\leq 初始规定值 Not more than the initial specified value								
高温贮存 Shelf Life	+85°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 +85°C, the capacitors shall meet the requirement of load life above									
低温特性 Low Temperature Stability	UR (V)		6.3	10	16	25	35	50	63	100
	Z(-25°C)/ Z(+20°C)	< $\Phi 8$	4	3	2	2	2	2	2	2
		$\geq \Phi 8$	5	4	3	2	2	2	2	2
阻抗比 Impedance Ratio (120Hz)	Z(-40°C)/ Z(+20°C)		< $\Phi 8$	8	8	4	4	3	3	3
		$\geq \Phi 8$	10	8	6	4	3	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	$\pm 10\%$ 初始值以内 Within $\pm 10\%$ of the initial value								
	损耗角正切 Dissipation Factor	\leq 初始规定值 Not more than the initial specified value								
	漏电流 Leakage Current	\leq 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
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	44	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 × 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	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	340	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°C, 120Hz) I~ = 额定纹波电流 (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