



型片式铝电解电容

Series Chip Type Aluminum Electrolytic Capacitors

特点 Features

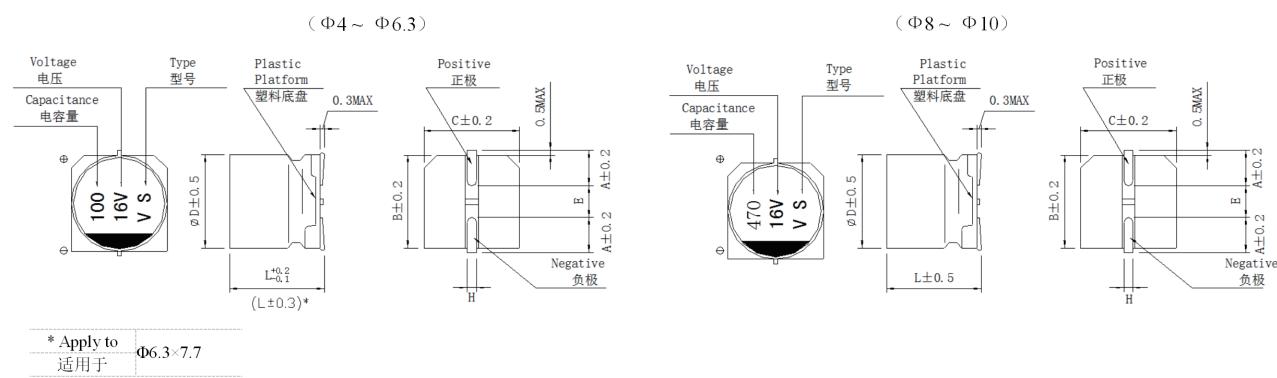
- ◆ 产品直径 Case diameter: $\Phi 4\text{mm} - \Phi 10\text{mm}$.
- ◆ 适用于再流焊。Reflow soldering is available.
- ◆ 适用于高密度表面组装。Available for high density surface mounting.
- ◆ ROHS指令已对应完毕。Adapted to the ROHS directive.



主要技术性能 Specifications

项目 Items	特性 Performance Characteristics								
工作温度范围 Operating Temperature Range	-40°C ~ 85°C								
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°C , 120Hz)								
漏电流 Leakage Current	$I \leq 0.01CRVR$ or $3(\mu\text{A})$, 取较大者 (2分钟) CR : 标称电容量 (μF) UR : 额定电压 (V) $I \leq 0.01CRVR$ or $3(\mu\text{A})$ Whichever is greater(at 20°C, After 2 minutes) CR: Nominal Capacitance (μF) UR: Rated voltages (V)								
损耗角正切 (tgδ) Dissipation Factor (Max) 20°C, 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	$+85^\circ\text{C}$ 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:								
	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			$\leq 200\%$ 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	$+85^\circ\text{C}$ 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 $+85^\circ\text{C}$, 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
	$Z(-25^\circ\text{C})/Z(+20^\circ\text{C})$	< $\Phi 8$	4	3	2	2	2	2	2
		$\geq \Phi 8$	5	4	3	2	2	2	2
	$Z(-40^\circ\text{C})/Z(+20^\circ\text{C})$	< $\Phi 8$	8	8	4	4	3	3	3
		$\geq \Phi 8$	10	8	6	4	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.								
	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			\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					

外形图及尺寸表 Case Size Table



	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

V 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	6.3×7.7	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	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	700	10×10.5	580												
1500	10×10.5	750																

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

SOLID CHIP MINIATURE STANDARD LOW-ESR SWITCH-POWER LIGHTING SPECIAL SNAP-IN SCREW