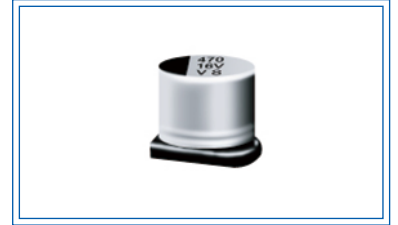


VS Chip Type Aluminum Electrolytic Capacitors

Features

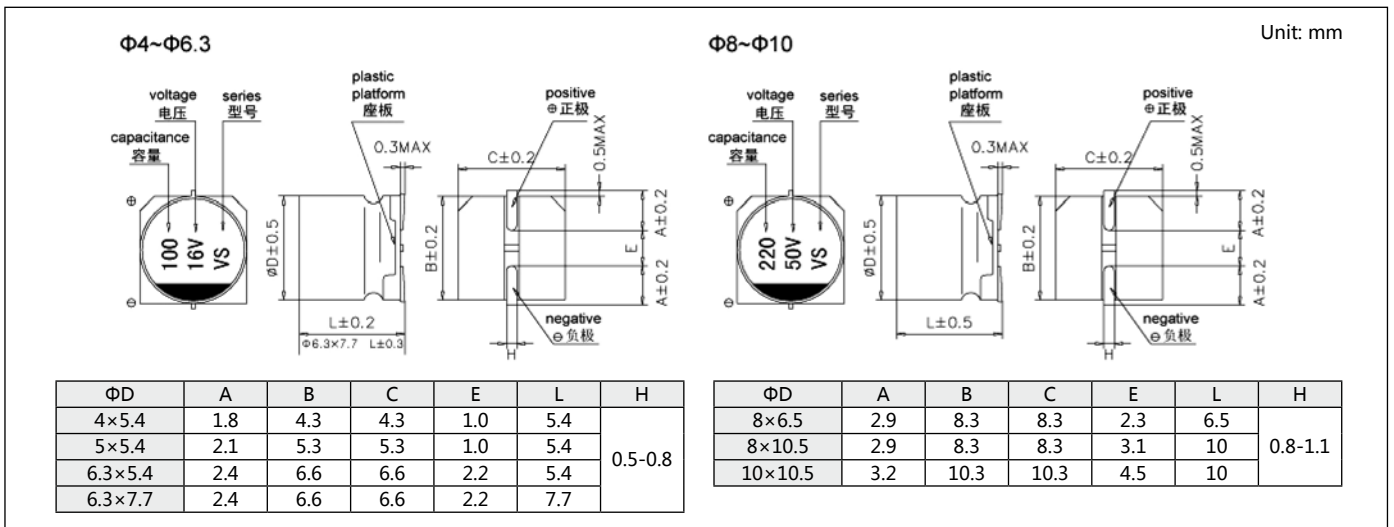
- Case diameter: Φ4mm-Φ10mm.
- Reflow soldering is available.
- Available for high density surface mounting.
- Adapted to the RoHS directive.



Specifications

Item	Performance Characteristics										
Operating Temperature Range	-40 ~ +85°C										
Rated Voltage Range	4~100V										
Nominal Capacitance Range	0.1~1500μF										
Nominal Capacitance Tolerance	±20%(+20°C ,120Hz)										
Leakage Current	$I \leq 0.01C_R U_R$ or 3(μA), Whichever is greater (at 20°C , after 2 minutes) C_R : Nominal capacitance(μF), U_R : Rated voltage(V)										
Dissipation Factor(Max) (tgδ,+20°C,120Hz)	U_R (V)	4	6.3	10	16	25	35	50	63	100	
	tgδ	0.35	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.10	
Load Life	After 2000 hours' application of rated voltage at 85°C , the capacitor shall meet the following requirement:										
	Capacitance change	Within ±20% of the initial value(≤ 16V: within ±25% of the initial value)									
	Dissipation factor	Not more than 200% of the initial specified value									
Shelf Life	After storage for 1000 hours at 85°C ,the capacitors shall meet the requirement of load life above.										
	Low Temperature Stability Impedance Ratio(120Hz)	U_R (V)	4	6.3	10	16	25	35	50	63	100
Z-25°C /+20°C		<φ8	7	4	3	2	2	2	2	2	2
		≥ φ8	7	5	4	3	2	2	2	2	2
Z-40°C /+20°C		<φ8	15	8	8	4	4	3	3	3	3
	≥ φ8	15	10	8	6	4	3	3	3	3	
Resistance to Soldering Heat	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:										
	Capacitance change	Within ±10% of the initial value									
	Dissipation factor	Not more than the initial specified value									
	Leakage current	Not more than the initial specified value									

Diagram of Dimensions



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

V Item Cap.(µF)	4		6.3		10		16		25		35		50		63		100	
	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)	ΦD×L (mm)	I~ (mA)	ΦD×L (mm)	I~ (mA)	ΦD×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				
													5×5.4	25				
10							4×5.4	26	4×5.4	24	4×5.4	24	5×5.4	41			8×6.5	40
													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	8×6.5	96	8×10.5	77
						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	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
			5×5.4	44	5×5.4	48	6.3×5.4	63	6.3×5.4	67							8×10.5	100
47	4×5.4	37	4×5.4	40	5×5.4	47	5×5.4	52					6.3×7.7	94	6.3×7.7	105		
			5×5.4	52	6.3×5.4	67	6.3×5.4	75	6.3×5.4	70			8×10.5	140			10×10.5	130
100	5×5.4	63	5×5.4	47	5×5.4	54			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	110	6.3×5.4	91	6.3×7.7	173	6.3×7.7	162	8×10.5	230	8×10.5	200						
					8×6.5	250	8×10.5	280	8×10.5	310	10×10.5	310			10×10.5	320		
330			6.3×7.7	188	8×10.5	390	8×10.5	320	8×10.5	270			10×10.5	360				
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	8×10.5	580												
1500			10×10.5	750														

I~ =Rated ripple current (mA)(+85° C ,120Hz)

Frequency coefficient of ripple current

Frequency(Hz)	50Hz	120Hz	300Hz	1kHz	10K~100KHz
Coefficient	0.70	1.00	1.17	1.36	1.50