SURFACE MOUNT CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS

VB

High capacitance and Super low ESR

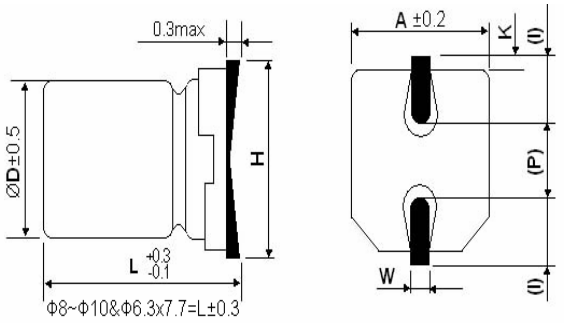
■ Features: 105℃,2000hrs, High capacitance and Super low ESR
■ Recommended Applications: Motherboard, DC/DC Converter ,
Adapter , SPS ,VCR , camcorder , DSC , PDA,
HD Drive , MO Drive , DVD Drive, Navigation system,
Portable Communication Devices
■ Corresponding product to RoHS

■ Specifications

Item	Characteristics
Category Temperature Range	-55 ~ +105℃
Rated Voltage Range	2.5 ~ 16VDC
Rated Capacitance Range	68 ~ 1200㎌
Capacitance Tolerance	±20% at 120Hz , 20℃
Surge Voltage	Rated voltage (V) x 1.15
Leakage Current (MAX) (20℃)	Less than or equal to the value of Table.(After rated voltage applied for 2 minutes at 20℃)
Dissipation Factor (MAX) (tan δ) (120Hz ,20℃)	WV: 2.5 ~ 16V tan δ: 0.12
Low Temperature Stability Impedance Ratio (MAX) (20℃)	WV / Z(100KHz): 2.5 ~ 16V Z-25℃ / Z+20℃: ≦1.15 Z-55℃ / Z+20℃: ≦1.25
Endurance	After applying rated voltage for 2000 hours at 105℃, the capacitor shall meet the following requirement. Appearance: No significant damage Capacitance Change: Within ±20% of the initial value Dissipation Factor: Not more than 150% of the initial specified value Equivalent Series Resistance: Not more than 150% of the initial specified value Leakage Current: Not more than the initial specified value WV: 2.5 ~ 16V Life: 2000
Humidity Test	after subjecting 90 to 95% RH for 1000 hours at 60℃. the capacitors shall meet the requirement as Endurance.
Resistance to Soldering Heat＊	Capacitance Change: Within ±10% of the initial value Dissipation Factor: Not more than 130% of the initial specified value Equivalent Series Resistance: Not more than 130% of the initial specified value Leakage Current: Not more than the initial specified value

＊For any doubt about measured values, measure the leakage current again after the following voltage treatment.
Voltage treatment: Applying DC rated voltage to the capacitors for 2 hours at 105 oC.

■ Diagram of Dimensions



ΦD	L	A	H	I	W	P	K
6.3	5.8	6.6	7.8 Max	2.6	0.65±0.15	1.8±0.2	0.35 +0.15 -0.2
6.3	7.7	6.6	7.8 Max	2.6	0.65±0.15	1.8±0.2	0.35 +0.15 -0.2
8	6.7	8.3	9.5 Max	3.4	0.65±0.15	2.2±0.2	0.35 +0.15 -0.2
8	10.4	8.3	10.0 Max	3.4	0.90±0.2	3.1±0.2	0.70±0.20
10	10.0	10.3	12.0 Max	3.5	0.90±0.2	4.6±0.2	0.70±0.20

■ Multiplier for Ripple Current

Frequency (Hz)	120≦F＜1K	1K≦F＜10K	10K≦F＜100K	100K≦F≦500K
Coefficient	0.05	0.3	0.7	1

SURFACE MOUNT CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS

VB

High capacitance and Super low ESR

■ Dimensions,Rated Ripple Current,Equivalent Series Resistance

Capacitance (μF)	Rated Voltage							
	2.5V				4V			
	SIZE	RIPPLE	ESR	LC(μA max/2min)	SIZE	RIPPLE	ESR	LC(μA max/2min)
270					6.3x5.8	3160	15	300
330					6.3x5.8	3160	15	300
390	6.3x5.8	3160	15	300				
560	6.3x5.8	3500	16	300				
	6.3X7.7	3600	13	300	8X6.7	3220	22	300
	8X6.7	4100	13	300				

Capacitance (μF)	Rated Voltage							
	6.3V				10V			
	SIZE	RIPPLE	ESR	LC(μA max/2min)	SIZE	RIPPLE	ESR	LC(μA max/2min)
120	6.3x5.8	2500	24	300	6.3x5.8	2600	22	300
150					6.3x7.7	2880	21	300
220	6.3X5.8	3160	15	300	8X6.7	3220	22	540
270					8X6.7	3220	22	540
330	6.3x5.8	3390	17	415				
	6.3X7.7	3470	14	415				
	8X6.7	3950	14	415	8X10.4	4000	17	660
390	8X10.4	4210	15	491				
470	8X10.4	4210	15	592	10x10	5025	12	940
560	10X10	5025	12	705				
820	10X10	5025	12	1033				
1200	10X10	5025	12	1510				

Capacitance (μF)	Rated Voltage							
	16V							
	SIZE	RIPPLE	ESR	LC(μA max/2min)	SIZE	RIPPLE	ESR	LC(μA max/2min)
68	6.3x5.8	2440	25	300				
100	6.3x5.8	2440	25	300				
	6.3x7.7	2700	24	320				

☆ SIZE：φDxL(mm) ☆tanδ:20℃,120Hz. ☆Ripple Current:(mA/rms),105℃ .100KHz ☆ ESR(mΩ).20℃.100KHz