

SURFACE MOUNT CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS

VP

Standard SMD type product

- Features: 105°C, 2000hrs, Standard SMD type product
- 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



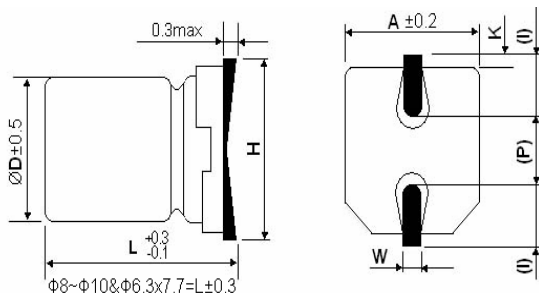
Specifications

Item	Characteristics	
Category Temperature Range	-55 ~ +105°C	
Rated Voltage Range	2.5 ~ 25VDC	
Rated Capacitance Range	22 ~ 1500 μ F	
Capacitance Tolerance	$\pm 20\%$ at 120Hz, 20°C	
Surge Voltage	Rated voltage (V) $\times 1.15$	
Leakage Current (MAX) (20°C) *	Less than or equal to the value of Table.(After rated voltage applied for 2 minutes at 20°C)	
Dissipation Factor (MAX) (tan δ) (120Hz, 20°C)	WV	2.5 ~ 25V
	tan δ	0.12
	WV	2.5 ~ 25V
	Z(100KHz)	
Low Temperature Stability Impedance Ratio (MAX) (20°C)	Z-25°C / Z+20°C	≤ 1.15
	Z-55°C / Z+20°C	≤ 1.25
Endurance	After applying rated voltage for 2000 hours at 105°C, the capacitor shall meet the following requirement.	
	Appearance	No significant damage
	Capacitance Change	Within $\pm 20\%$ 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 ~ 25V
	Life	2000
Humidity Test	after subjecting 90 to 95% RH for 1000 hours at 60°C. the capacitors shall meet the requirement as Endurance.	
Resistance to Soldering Heat *	Capacitance Change	Within $\pm 10\%$ 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
5	5.8	5.3	6.5 Max	2.2	0.65±0.15	1.5±0.2	0.35 $\begin{matrix} +0.15 \\ -0.2 \end{matrix}$
6.3	5.8	6.6	7.8 Max	2.6	0.65±0.15	1.8±0.2	0.35 $\begin{matrix} +0.15 \\ -0.2 \end{matrix}$
6.3	7.7	6.6	7.8 Max	2.6	0.65±0.15	1.8±0.2	0.35 $\begin{matrix} +0.15 \\ -0.2 \end{matrix}$
8	6.7	8.3	9.5 Max	3.4	0.65±0.15	2.2±0.2	0.35 $\begin{matrix} +0.15 \\ -0.2 \end{matrix}$
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
10	12.2	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 $\leq$ F < 1K	1K $\leq$ F < 10K	10K $\leq$ F < 100K	100K $\leq$ F $\leq$ 500K
Coefficient	0.05	0.3	0.7	1

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■ Dimensions, Rated Ripple Current, Equivalent Series Resistance

Capacitance (μ F)	Rated Voltage							
	2.5V				4V			
	SIZE	RIPPLE	ESR	LC(μ A max/2min)	SIZE	RIPPLE	ESR	LC(μ A max/2min)
100					6.3x5.8	2450	26	300
120					5x5.8	1490	30	300
150					6.3x5.8	2450	26	300
180	6.3x5.8	2200	25	300				
220	6.3x5.8	2500	25	300				
330					6.3x7.7	2650	25	300
390	6.3x7.7	2720	23	300				
470	6.3x7.7	2720	23	300				
820					8x10.4	3950	18	656
					10x12.2	5500	10	656
1000	8x10.4	3950	18	500				
1200	10x10.0	4000	12	600	10x10.0	4000	12	960
					10x12.2	5500	10	960
1500	10x10.0	4000	12	750				
	10x12.2	5500	10	750				

Capacitance (μ F)	Rated Voltage							
	6.3V				10V			
	SIZE	RIPPLE	ESR	LC(μ A max/2min)	SIZE	RIPPLE	ESR	LC(μ A max/2min)
22					5x5.8	1270	40	300
33					5x5.8	1270	40	300
47	5x5.8	1380	35	300	5x5.8	1270	40	300
					6.3x5.8	2250	31	300
56					6.3x5.8	2250	31	300
68	6.3x5.8	2400	27	300				
82	6.3x5.8	2400	27	300				
100	5x5.8	1380	35	300				
	6.3x5.8	2400	27	300				
120	6.3x5.8	2400	27	300	6.3x7.7	2560	27	300
					8x6.7	2800	27	300
150					6.3x7.7	2560	27	300
220	6.3x5.8	2400	27	300				
	6.3x7.7	2650	25	300				
270	6.3x7.7	2650	25	340				
330	6.3x7.7	2650	25	416				
390					8x10.4	3020	22	780
470	6.3x7.7	2650	25	592	10x10.0	3500	14	940
	8x10.4	3610	21	592	10x12.2	5300	12	940
560					10x12.2	5300	12	1120
680	8x10.4	3610	21	857				
	10x10.0	3650	12	857				
	10x12.2	5500	10	857				
820	10x10.0	3650	12	1033				
	10x12.2	5500	10	1033				
1000					10x12.2	4800	13	2000

☆ SIZE : ϕ DxL(mm) ☆ $\tan \delta$: 20°C, 120Hz. ☆ Ripple Current: (mA/rms), 105°C . 100KHz ☆ ESR(m Ω). 20°C. 100KHz

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■ Dimensions, Rated Ripple Current, Equivalent Series Resistance

Capacitance (μ F)	Rated Voltage							
	16V				25V			
	SIZE	RIPPLE	ESR	LC(μ A max/2min)	SIZE	RIPPLE	ESR	LC(μ A max/2min)
22	5x5.8	1210	45	300				
33	6.3x5.8	2050	37	300	8X10.4	2500	30	300
39	6.3x5.8	2050	37	300				
47	6.3x5.8	1600	50	300				
82	6.3x7.7	2420	30	300				
	8X6.7	2700	30	300				
100	6.3x7.7	2420	30	320				
180	8x10.4	3490	23	576				
220	8x10.4	3490	23	704				
	10x12.2	5050	14	704				
270	8x10.4	3490	23	864				
330	10x10.0	3100	16	1056				
	10x12.2	5050	14	1056				
680	10X12.2	5050	14	1056				

☆ SIZE : ϕ DxL(mm) ☆ $\tan \delta$:20°C,120Hz. ☆Ripple Current:(mA/rms),105°C .100KHz ☆ ESR(m Ω).20°C.100KHz