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SURFACE MOUNT ALUMINUM ELECTROLYTIC

SV General Purpose Series



■Features : 105℃ 1000 hours , Higher temperature range Than GV, Low profile vertical chip
■Recommended Applications: Suitable for AV(TV,Video,Audio),Monitor/Computer, OA/HA/Communication
■Corresponding product to RoHS

■ Specifications

Item	Characteristics
Operating Temperature Range	-40 ~ +105℃
Rated Voltage Range (WV)	4 ~ 100VDC
Capacitance Range	1 ~ 1500μF
Capacitance Tolerance	± 20 % at 120Hz , 20℃
Leakage Current (MAX) (20℃)	I≦0.01CV or 3(μA) , whichever is greater. (After rated voltage applied for 2 minutes)
	I= Leakage Current (μA) C= Nominal Capacitance (μF) V= Rated Voltage (V)
Dissipation Factor (MAX) (tanδ) (120Hz ,20℃)	Shown in the table of standard rating
Low Temperature Stability Impedance Ratio (MAX)	

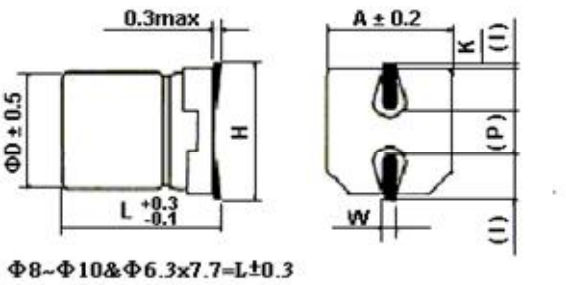
WV / Z(120HZ)	4	6.3	10	16	25	35	50	63	100
Z(-25℃) / Z(20℃)	7	4	3	2	2	2	2	2	2
Z(-40℃) / Z(20℃)	15	8	6	4	4	3	3	3	3

Endurance: After applying rated voltage for 1000hrs at 105℃, the capacitors shall meet the following requirements.

Capacitance Change	Within ±20% of the initial value
Dissipation Factor	Not more than 200% of the specified value
Leakage Current	Not more than the specified value

Shelf Life: After placed at 105℃ without voltage applied for 1000 hours, the capacitor shall meet the same requirement as Endurance.

■ Diagram of Dimensions(mm)



( ) : Reference size

ψD	L	A	H	I	W	P	K	
4.0	5.4	4.3	5.5 Max	1.8	0.65±0.1	1.0±0.2	0.35	+0.15 -0.20
5.0	5.4	5.3	6.5 Max	2.2	0.65±0.1	1.5±0.2	0.35	+0.15 -0.20
6.3	5.4	6.6	7.8 Max	2.6	0.65±0.1	1.8±0.2	0.35	+0.15 -0.20
6.3	7.7	6.6	7.8 Max	2.6	0.65±0.1	1.8±0.2	0.35	+0.15 -0.20
8.0	10.2	8.3	10.0 Max	3.4	0.90±0.2	3.1±0.2	0.70	±0.2
10.0	10.2	10.3	12.0 Max	3.5	0.90±0.2	4.6±0.2	0.70	±0.2

■ Multiplier for Ripple Current

Frequency coefficient

Frequency (Hz)	60	120	1K	10K
Coefficient	0.85	1.00	1.15	1.25

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■Dimensions,Max Dissipation Factor,Max Permissible Ripple Current

Capacitance (μF)	Rated (Surge) Voltage											
	4(5)			6.3(8)			10(13)			16(20)		
	Size	tanδ	Ripple	Size	tanδ	Ripple	Size	tanδ	Ripple	Size	tanδ	Ripple
4.7										4x5.4	0.16	20
10							4x5.4	0.30	24	4x5.4	0.16	28
22	4x5.4	0.35	20	4x5.4	0.30	29	4x5.4	0.30	36	5x5.4	0.16	39
33	4x5.4	0.35	26	4x5.4	0.3	43	4x5.4	0.30	45	5x5.4	0.20	39
							5x5.4	0.30	46	6.3x5.4	0.20	65
47	4x5.4	0.35	34	4x5.4	0.30	43	5x5.4	0.30	46	5x5.4	0.20	39
				5x5.4	0.30	46	6.3x5.4	0.30	70	6.3x5.4	0.20	70
100	5x5.4	0.35	61	5x5.4	0.35	47	6.3x5.4	0.30	71	6.3x5.4	0.20	70
				6.3x5.4	0.35	71	6.3x7.7	0.30	110	6.3x7.7	0.20	130
220	6.3x5.4	0.35	82	6.3x5.4	0.35	74	6.3x7.7	0.30	115	6.3x7.7	0.20	105
				6.3x7.7	0.35	120	8x10.2	0.26	160	8x10.2	0.20	150
330				6.3x7.7	0.35	175	8x10.2	0.26	200	8x10.2	0.20	170
				8x10.2	0.35	230				10x10.2	0.20	230
470				8x10.2	0.35	300	8x10.2	0.26	230	8x10.2	0.20	230
							10x10.2	0.26	270	10x10.2	0.20	340
680										10x10.2	0.20	380
1000				8x10.2	0.35	300	10x10.2	0.26	390			
				10x10.2	0.35	400						
1500				10x10.2	0.35	480						

Capacitance (μF)	Rated (Surge) Voltage								
	25(32)			35(44)			50(63)		
	Size	tanδ	Ripple	Size	tanδ	Ripple	Size	tanδ	Ripple
1							4x5.4	0.12	10
2.2				4x5.4	0.12	15	4x5.4	0.12	16
3.3				4x5.4	0.12	18	4x5.4	0.12	16
4.7	4x5.4	0.14	22	4x5.4	0.12	22	5x5.4	0.12	23
10	4x5.4	0.14	22	4x5.4	0.12	25	6.3x5.4	0.12	35
	5x5.4	0.14	28	5x5.4	0.12	30			
22	5x5.4	0.14	35	5x5.4	0.14	35	6.3x7.7	0.12	65
	6.3x5.4	0.14	55	6.3x5.4	0.14	60			
33	5x5.4	0.14	45	6.3x5.4	0.14	60	6.3x7.7	0.12	70
	6.3x5.4	0.16	65	6.3x7.7	0.14	84	8x10.2	0.12	91
47	6.3x5.4	0.16	70	6.3x7.7	0.14	84	6.3x7.7	0.12	75
	6.3x7.7	0.16	91	8x10.2	0.14	98	8x10.2	0.12	95
100	6.3x7.7	0.16	95	6.3x7.7	0.14	105	8x10.2	0.12	110
	8x10.2	0.16	130	8x10.2	0.14	120	10x10.2	0.12	145
220	8x10.2	0.16	160	8x10.2	0.14	170	10x10.2	0.12	210
	10x10.2	0.16	273	10x10.2	0.14	240			
330	8x10.2	0.16	180	10x10.2	0.14	250			
	10x10.2	0.16	340						
470	10x10.2	0.16	360						

Capacitance (μF)	Rated (Surge) Voltage					
	63(79)			100(125)		
	Size	tanδ	Ripple	Size	tanδ	Ripple
3.3				8x10.2	0.18	30
4.7	6.3x5.4	0.18	20	8x10.2	0.18	50
10	6.3x5.4	0.18	20	8x10.2	0.18	55
22	8x10.2	0.18	30	10x10.2	0.18	60
33	8x10.2	0.18	30	10x10.2	0.18	65
47	8x10.2	0.18	45	10x10.2	0.18	65
100	10x10.2	0.18	60			

☆Size:Dψx L(mm).☆tanδ:20℃,120Hz.☆Ripple Current: 105℃,120Hz,(mA/rms).