SURFACE MOUNT ALUMINUM ELECTROLYTIC

YV Low Impedance Series

●Features : 105℃ 1000~2000 hours , Wide temperature range, Low profile vertical chip,Low impedance
●Recommended Applications: Suitable for AV(TV,Video,Audio),Monitor/Computer, Battery charger, DC/DC converter,SMPS,Noise filter
●Corresponding product to RoHS

■ Specifications

Item	Characteristics
Operating Temperature Range	-55 ~ +105℃
Rated Voltage Range (WV)	6.3 ~ 50VDC
Capacitance Range	0.1 ~ 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) (tan δ) (120Hz ,20℃)	Shown in the table of standard rating

Low Temperature Stability Impedance Ratio (MAX)

WV / Z(120HZ)	6.3	10	16	25	35	50
Z(-25℃) / Z(20℃)	2	2	2	2	2	2
Z(-40℃) / Z(20℃)	4	4	3	3	3	3

Endurance

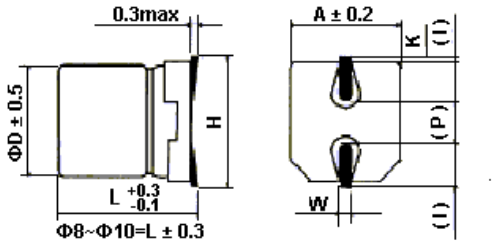
After applying rated voltage with rated ripple current for 1000~2000hrs at 105℃, the capacitors shall meet the following requirements.

Capacitance Change	6.3VF Within ±30% of the initial value,10-50VFWithin ±20% of the initial value	
Dissipation Factor	Not more than 200% of the specified value	
Leakage Current	Not more than the specified value	
DΦ	4x5.4~6.3x7.7	8x10.2~10x10.2
Life	1000hrs	2000hrs

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

φD	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
8.0	6.2	8.3	9.5 Max	3.4	0.65±0.1	2.2±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±0.20
10.0	10.2	10.3	12.0 Max	3.5	0.90±0.2	4.6±0.2	0.70±0.20

■ Multiplier for Ripple Current

Frequency coefficient

Frequency (Hz)	120	1K	10K	100K
Coefficient	0.7	0.8	0.9	1.0

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■Dimensions,Max Permissible Ripple Current,Max Impedance

Capacitance (μF)	Rated (Surge) Voltage											
	6.3(8)				10(13)				16(20)			
	Size	tan δ	Ripple	Z	Size	tan δ	Ripple	Z	Size	tan δ	Ripple	Z
10									4x5.4	0.16	60	3.0
22	4x5.4	0.26	60	3.0	5x5.4	0.22	95	1.8	5x5.4	0.16	95	1.8
33	5x5.4	0.26	95	1.8	5x5.4	0.22	95	1.8	6.3x5.4	0.16	140	1.0
47	5x5.4	0.26	95	1.8	6.3x5.4	0.22	140	1.0	6.3x5.4	0.16	140	1.0
100	6.3x5.4	0.26	140	1.0	6.3x5.4	0.22	140	1.0	6.3x5.4	0.16	140	1.0
220	6.3x5.4	0.26	140	1.0	6.3x7.7	0.22	280	0.34	6.3x7.7	0.16	280	0.34
330	6.3x7.7	0.26	280	0.34	8x10.2	0.26	450	0.3	8x10.2	0.20	450	0.3
470	8x10.2	0.35	450	0.3	8x10.2	0.26	450	0.3	8x10.2	0.20	450	0.3
680	8x10.2	0.35	450	0.3	10x10.2	0.26	670	0.15	10x10.2	0.20	670	0.15
1000	8x10.2	0.35	450	0.3	10x10.2	0.26	670	0.15				
1500	10x10.2	0.35	670	0.15								

Capacitance (μF)	Rated (Surge) Voltage											
	25(32)				35(44)				50(63)			
	Size	tan δ	Ripple	Z	Size	tan δ	Ripple	Z	Size	tan δ	Ripple	Z
1									4x5.4	0.12	30	5.0
2.2									4x5.4	0.12	30	5.0
3.3									4x5.4	0.12	30	5.0
4.7					4x5.4	0.12	60	3.0	5x5.4	0.12	50	3.0
10	5x5.4	0.14	95	1.8	5x5.4	0.12	95	1.8	6.3x5.4	0.12	70	2.0
22	6.3x5.4	0.14	140	1.0	6.3x5.4	0.12	140	1.0	6.3x5.4	0.12	70	2.0
33	6.3x5.4	0.14	140	1.0	6.3x5.4	0.12	140	1.0	6.3x7.7	0.12	170	1.3
47	6.3x5.4	0.14	140	1.0	6.3x5.4	0.12	140	1.0	6.3x7.7	0.12	170	1.3
68	6.3x7.7	0.14	280	0.34	6.3x7.7	0.12	280	0.34	8x10.2	0.12	300	0.6
100	6.3x7.7	0.14	280	0.34	8x10.2	0.14	450	0.3	8x10.2	0.12	300	0.6
220	8x10.2	0.16	450	0.3	8x10.2	0.14	450	0.3	10x10.2	0.12	500	0.34
330	8x10.2	0.16	450	0.3	10x10.2	0.14	670	0.15				
470	10x10.2	0.16	670	0.15								

☆Size:D φ x L(mm)☆Ripple Current: 105℃,100KHz,(mA/rms)☆Impedance: 20℃,100KHz,Z(Ω).