SURFACE MOUNT ALUMINUM ELECTROLYTIC

JV Ultra Low Impedance Series

●Features : 105℃ 2000 hours , Low profile vertical chip, Ultra low impedance
●Recommended Applications: AV(TV,Video,Audio) ,Monitor/Computer,
OA/HA/Communication ,SMPS
●Corresponding product to RoHS

■ Specifications

Item	Characteristics
Operating Temperature Range	-55 ~ +105℃
Rated Voltage Range (WV)	6.3 ~ 35VDC
Capacitance Range	10~ 1800 μF
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)	

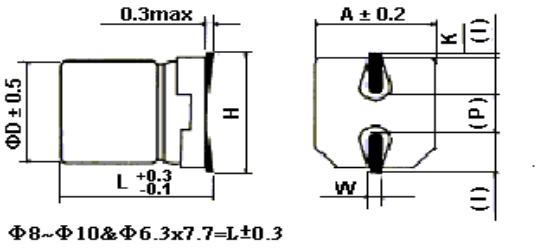
WV / Z(120HZ)	6.3	10	16	25	35
Z(-25℃) / Z(20℃)	2	2	2	2	2
Z(-40℃) / Z(20℃)	3	3	3	3	3

Endurance: After applying rated voltage with rated ripple current for 2000 hours at 105℃, the capacitor shall meet the following requirement.

Capacitance Change	Within±30% 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)



Φ8~Φ10&Φ6.3x7.7=L±0.3

( ) : 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
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)	120	1K	10K	100K
Coefficient	0.70	0.80	0.90	1.00

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■Case Size / tan δ / Max Ripple Current / Impedance

Capacitance (μF)	Rated (Surge) Voltage											
	6.3(8)				10(13)				16(20)			
	φDxL	tan δ	RC	Z	φDxL	tan δ	RC	Z	φDxL	tan δ	RC	Z
22									4x5.4	0.16	90	1.93
33					4x5.4	0.19	90	1.93	4x5.4	0.16	90	1.93
47	4x5.4	0.26	90	1.93	4x5.4	0.19	90	1.93	4x5.4	0.16	90	1.93
					5x5.4	0.19	160	1.00	5x5.4	0.16	160	1.00
68	4x5.4	0.26	90	1.93	4x5.4	0.19	90	1.93	5x5.4	0.16	160	1.00
					5x5.4	0.19	160	1.00				
100	5x5.4	0.26	160	1.00	5x5.4	0.19	160	1.00	6.3x5.4	0.16	240	0.52
					6.3x5.4	0.19	240	0.52				
150	5x5.4	0.26	160	1.00	5x5.4	0.19	160	1.00	6.3x5.4	0.16	240	0.52
	6.3x5.4	0.26	240	0.52	6.3x5.4	0.19	240	0.52	6.3x7.7	0.16	280	0.34
220	6.3x5.4	0.26	240	0.52	6.3x5.4	0.19	240	0.52	6.3x7.7	0.16	280	0.34
					6.3x7.7	0.19	280	0.34				
330	6.3x5.4	0.26	240	0.52	6.3x7.7	0.19	280	0.34	6.3x7.7	0.16	280	0.34
	6.3x7.7	0.26	280	0.34					8x10.2	0.16	600	0.16
470	6.3x7.7	0.26	280	0.34	6.3x7.7	0.19	280	0.34	8x10.2	0.16	600	0.16
					8x10.2	0.19	600	0.16				
680	8x10.2	0.26	600	0.16	8x10.2	0.19	600	0.16	8x10.2	0.16	600	0.16
									10x10.2	0.16	850	0.08
1000	8x10.2	0.26	600	0.16	8x10.2	0.19	600	0.16	10x10.2	0.16	850	0.08
					10x10.2	0.19	850	0.08				
1200	8x10.2	0.26	600	0.16	10x10.2	0.19	850	0.08				
	10x10.2	0.26	850	0.08								
1500	10x10.2	0.26	850	0.08								
1800	10x10.2	0.26	850	0.08								

Capacitance (μF)	Rated (Surge) Voltage							
	25(32)				35(44)			
	φDxL	tan δ	RC	Z	φDxL	tan δ	RC	Z
10	4x5.4	0.14	90	1.93	4x5.4	0.12	90	1.93
22	4x5.4	0.14	90	1.93	5x5.4	0.12	160	1.00
	5x5.4	0.14	160	1.00				
33	5x5.4	0.14	160	1.00	5x5.4	0.14	160	1.00
					6.3x5.4	0.12	240	0.52
47	5x5.4	0.14	160	1.00	6.3x5.4	0.12	240	0.52
	6.3x5.4	0.14	240	0.52				
68	6.3x5.4	0.14	240	0.52	6.3x5.4	0.12	240	0.52
					6.3x7.7	0.12	280	0.34
100	6.3x5.4	0.14	240	0.52	6.3x7.7	0.12	280	0.34
	6.3x7.7	0.14	280	0.34				
150	6.3x7.7	0.14	280	0.34	8x10.2	0.12	600	0.16
220	8x10.2	0.14	600	0.16	8x10.2	0.12	600	0.16
330	8x10.2	0.14	600	0.16	10x10.2	0.12	850	0.08
470	10x10.2	0.14	850	0.08				
560	10x10.2	0.14	850	0.08				

☆CASE SIZE：φDxL(mm)、 MAX DISSIPATION FACTOR ：tan δ / 120Hz,20℃ 、
MAX PERMISSIBLE RIPPLE CURRENT：RC(mArms) / 100KHz,105℃ 、
MAX IMPEDANCE：Z(Ω) / 100KHz,20℃