SURFACE MOUNT ALUMINUM ELECTROLYTIC

XV Ultra Low Impedance & Long Life Series

●Features : 105℃ 3000~5000 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 ~ 50VDC
Capacitance Range	1.0 ~ 1000 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	50
Z(-25℃) / Z(20℃)	2	2	2	2	2	2
Z(-40℃) / Z(20℃)	3	3	3	3	3	3

Endurance

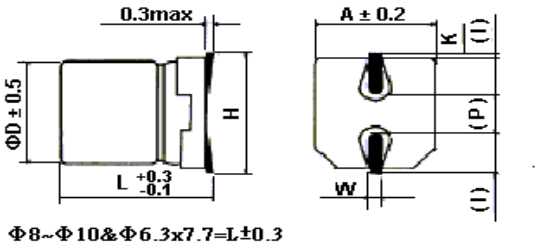
After applying rated voltage with rated ripple current for 3000~5000 hours at 105 ℃, the capacitor shall meet the following requirement.

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	
DΦ	4x5.4~6.3x7.7	8x10.2~10x10.2
Life	3000hrs	5000hrs

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

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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XV

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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	0.26	90	1.93	4x5.4	0.19	90	1.93	5x5.4	0.16	160	1.00
33	4x5.4	0.26	90	1.93	5x5.4	0.19	160	1.00	6.3x5.4	0.16	240	0.52
47	5x5.4	0.26	160	1.00	6.3x5.4	0.19	190	0.52	6.3x5.4	0.16	240	0.52
100	6.3x5.4	0.26	240	0.52	6.3x5.4	0.19	190	0.52	6.3x7.7	0.16	280	0.34
150	6.3x7.7	0.26	240	0.30	6.3x7.7	0.19	240	0.34	8x10.2	0.16	370	0.22
220	6.3x7.7	0.26	240	0.30	8x10.2	0.19	600	0.16	8x10.2	0.16	370	0.22
330	8x10.2	0.26	600	0.16	8x10.2	0.19	600	0.16	8x10.2	0.16	600	0.16
470	8x10.2	0.26	600	0.16	10x10.2	0.19	850	0.12	10x10.2	0.16	850	0.12
680	10x10.2	0.26	850	0.12	10x10.2	0.19	850	0.12				
1000	10x10.2	0.26	850	0.12								

Capacitance (μF)	Rated (Surge) Voltage											
	25(32)				35(44)				50(63)			
	φDxL	tan δ	RC	Z	φDxL	tan δ	RC	Z	φDxL	tan δ	RC	Z
1									4x5.4	0.12	60	5.00
2.2									4x5.4	0.12	60	5.00
3.3									4x5.4	0.12	60	5.00
4.7					4x5.4	0.12	90	1.93	5x5.4	0.12	95	4.00
10	4x5.4	0.14	90	1.93	5x5.4	0.12	160	1.00	6.3x5.4	0.12	140	2.60
22	5x5.4	0.14	160	1.00	5x5.4	0.12	160	1.00	6.3x7.7	0.12	230	1.30
33	6.3x5.4	0.14	240	0.52	6.3x5.4	0.12	240	0.52	8x10.2	0.12	350	0.50
47	6.3x5.4	0.14	240	0.52	6.3x7.7	0.12	280	0.34	10x10.2	0.12	670	0.34
68	6.3x7.7	0.14	280	0.34	6.3x7.7	0.12	280	0.34	10x10.2	0.12	670	0.34
100	6.3x7.7	0.14	300	0.34	8x10.2	0.12	600	0.16	10x10.2	0.12	670	0.34
150	8x10.2	0.14	600	0.16	10x10.2	0.12	850	0.12				
220	8x10.2	0.14	600	0.16	10x10.2	0.12	850	0.12				
330	10x10.2	0.14	850	0.12								

☆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℃