

SURFACE MOUNT ALUMINUM ELECTROLYTIC

EV Ultra Low Impedance Series

■ Features : 105°C 2000 hours , Low profile vertical chip, Ultra low impedance

■ Recommended Applications: AV(TV,Video,Audio) ,Monitor/Computer,
OA/HA/Communication ,SMPS

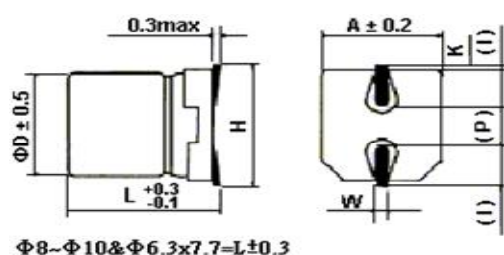
■ Corresponding product to RoHS



Specifications

Item	Characteristics																					
Operating Temperature Range	-55 ~ +105℃																					
Rated Voltage Range (WV)	6.3 ~ 50VDC																					
Capacitance Range	4.7 ~ 1500μF																					
Capacitance Tolerance	± 20 % at 120Hz , 20℃																					
Leakage Current (MAX) (20℃)	$I \leq 0.01CV$ or 3μA 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)	<table><tr><th> WV Z(120HZ) </th><th>6.3</th><th>10</th><th>16</th><th>25</th><th>35</th><th>50</th></tr><tr><td>Z(-25℃) / Z(20℃)</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40℃) / Z(20℃)</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr></table>	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
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 2000 hours at 105℃ , the capacitor shall meet the following requirement. <table><tr><td>Capacitance Change</td><td>Within±30% of the initial value</td></tr><tr><td>Dissipation Factor</td><td>Not more than 200% of the specified value</td></tr><tr><td>Leakage Current</td><td>Not more than the specified value</td></tr></table>	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															
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)



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

SURFACE MOUNT ALUMINUM ELECTROLYTIC

EV

Ultra Low Impedance
Series

■ Case Size / tanδ / Max Ripple Current / Impedance

Capacitance (μF)	Rated (Surge) Voltage											
	6.3(8)				10(13)				16(20)			
	ψDxL	tanδ	RC	Z	ψDxL	tanδ	RC	Z	ψDxL	tanδ	RC	Z
22	4x5.4	0.26	90	1.93	4x5.4	0.19	90	1.93	4x5.4	0.16	90	1.93
									5x5.4	0.16	160	1.00
33	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				
47	4x5.4	0.26	90	1.93	6.3x5.4	0.19	190	0.52	5x5.4	0.16	160	1.00
	5x5.4	0.26	160	1.00					6.3x5.4	0.16	240	0.52
100	5x5.4	0.26	160	1.00	6.3x5.4	0.19	190	0.52	6.3x5.4	0.16	240	0.52
	6.3x5.4	0.26	240	0.52								
150	6.3x7.7	0.26	240	0.30	6.3x7.7	0.19	240	0.34	6.3x7.7	0.16	280	0.34
220	6.3x7.7	0.26	240	0.30	6.3x7.7	0.19	280	0.34	6.3x7.7	0.16	280	0.34
									8x10.2	0.16	370	0.22
330	6.3x7.7	0.26	280	0.34	8x10.2	0.19	600	0.16	8x10.2	0.16	600	0.16
470	8x10.2	0.26	600	0.16	8x10.2	0.19	600	0.16	8x10.2	0.16	600	0.16
680	8x10.2	0.26	600	0.16	10x10.2	0.19	600	0.12	10x10.2	0.16	850	0.08
1000	8x10.2	0.26	600	0.16	10x10.2	0.19	850	0.08				
1500	10x10.2	0.26	850	0.08								

Capacitance (μF)	Rated (Surge) Voltage											
	25(32)				35(44)				50(63)			
	ψDxL	tanδ	RC	Z	ψDxL	tanδ	RC	Z	ψDxL	tanδ	RC	Z
4.7					4x5.4	0.12	90	1.93				
10	4x5.4	0.14	90	1.93	4x5.4	0.12	90	1.93				
					5x5.4	0.12	160	1.00	6.3x5.4	0.12	70	2.60
22	5x5.4	0.14	160	1.00	5x5.4	0.12	160	1.00	6.3x5.4	0.12	70	2.00
33	5x5.4	0.14	160	1.00	6.3x5.4	0.12	240	0.52	6.3x7.7	0.12	170	0.8
	6.3x5.4	0.14	240	0.52								
47	6.3x5.4	0.14	240	0.52	6.3x5.4	0.12	240	0.52	8x6.2	0.12	170	1.3
68	6.3x5.4	0.14	240	0.52	6.3x7.7	0.12	280	0.34				
100	6.3x7.7	0.14	280	0.34	6.3x7.7	0.12	280	0.34				
					8x10.2	0.12	600	0.16	8x10.2	0.12	300	0.4
150	8x10.2	0.14	600	0.16	8x10.2	0.12	600	0.16				
220	8x10.2	0.14	600	0.16	8x10.2	0.12	600	0.16	10x10.2	0.12	500	0.3
330	8x10.2	0.14	600	0.16	10x10.2	0.12	850	0.08				
470	10x10.2	0.14	850	0.08								

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