

SURFACE MOUNT ALUMINUM ELECTROLYTIC

HV

Ultra Low Impedance & High temperature Series

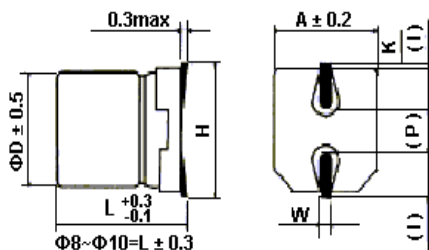
- Features : 125℃ 1000~ 2000 hours ,Higher temperature range
- Recommended Applications: Automatic Mounting and Reflow Soldering
- Corresponding product to RoHS



■ Specifications

Item	Characteristics					
Operating Temperature Range	-40 ~ +125℃					
Rated Voltage Range (WV)	10 ~ 50VDC					
Capacitance Range	47 ~ 1000 μ F					
Capacitance Tolerance	± 20 % at 120Hz , 20℃					
Leakage Current (MAX) (20℃)	I ≤ 0.01CV or 3 μ A whichever is greater(After rated voltage applied for 2 minutes)					
	I= Leakage Current (μ A) C= Nominal Capacitance (μ F) 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)	10	16	25	35	50
	Z(-25℃) / Z(20℃)	2	2	2	2	2
	Z(-40℃) / Z(20℃)	3	3	3	3	3
Endurance	After applying rated voltage for 1000~2000 hours at 125℃ , the capacitor shall meet the following requirement.					
	Capacitance Change	Within±30% of the initial value				
	Dissipation Factor	Not more than 300% of the specified value				
	D Φ	6.3x7.7-8x6.2			≥ 8x10.2	
	Life	1000hrs			2000hrs	
	Leakage Current	Not more than the specified value				
Shelf Life	After placed at 125℃ without voltage applied for 1000 hours(500 hours for 8x6.2), the capacitor shall meet the same requirement as Endurance.					

■ Diagram of Dimensions(mm)



ϕD	L	A	H	I	W	P	K	
8.0	6.2	8.3	9.5 Max	3.4	0.65 $\pm$ 0.1	2.2 $\pm$ 0.2	0.35	+0.15 -0.20
8.0	10.2	8.3	10.0 Max	3.4	0.90 $\pm$ 0.2	3.1 $\pm$ 0.2	0.70 $\pm$ 0.2	
10.0	10.2	10.3	12.0 Max	3.5	0.90 $\pm$ 0.2	4.6 $\pm$ 0.2	0.70 $\pm$ 0.2	

() : Reference size

■ 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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High temperature
Series

■ Case Size / $\tan \delta$ / Max Ripple Current

Capacitance (μ F)	Rated (Surge) Voltage								
	10(13)			16(20)			25(32)		
	ϕ DxL	$\tan \delta$	RC	ϕ DxL	$\tan \delta$	RC	ϕ DxL	$\tan \delta$	RC
47				6.3x7.7	0.20	70	6.3x7.7	0.18	70
							8x6.2	0.18	75
100	8x6.2	0.26	75	6.3x7.7	0.20	70	6.3x7.7	0.18	70
							8x6.2	0.18	75
				8x6.2	0.20	75	8x10.2	0.18	130
150	6.3x7.7	0.26	70	8x10.2	0.20	130	8x10.2	0.18	130
	8x6.2	0.26	75						
220	8x10.2	0.26	130	8x10.2	0.20	130	10x10.2	0.18	180
330	8x10.2	0.26	130	8x10.2	0.20	180	10x10.2	0.18	180
470	10x10.2	0.26	180	10x10.2	0.20	180			
680	10x10.2	0.26	180						
1000	10x10.2	0.26	180						

Capacitance (μ F)	Rated (Surge) Voltage					
	35(44)			50(63)		
	ϕ DxL	$\tan \delta$	RC	ϕ DxL	$\tan \delta$	RC
22	6.3x7.7	0.14	70	8x6.2	0.12	75
33	6.3x7.7	0.14	70	8x10.2	0.12	130
	8x6.2	0.14	75			
47	8x6.2	0.14	75	8x10.2	0.12	130
	8x10.2	0.14	130			
100	8x10.2	0.14	130	10x10.2	0.12	180
150	10x10.2	0.14	180			
220	10x10.2	0.14	180			
330						

☆CASE SIZE : ϕ DxL(mm) 、 MAX DISSIPATION FACTOR : $\tan \delta$ / 120Hz,20℃ 、
MAX PERMISSIBLE RIPPLE CURRENT : RC(mArms) / 120Hz,125℃ 、