

SURFACE MOUNT ALUMINUM ELECTROLYTIC

>DV Long Life Series

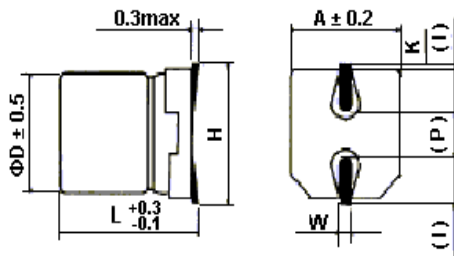
- Features : 105°C 2000 hours , Longer life than JSV, Low profile vertical chip
- Recommended Applications: Suitable for AV(TV,Video,Audio),Monitor/Computer, OA/HA/Communication
- Corresponding product to RoHS



Specifications

Item	Characteristics																																				
Operating Temperature Range	-40 ~ +105°C																																				
Rated Voltage Range (WV)	6.3 ~ 100VDC																																				
Rated Capacitance Range	0.1 ~ 1500 μ F																																				
Capacitance Tolerance	$\pm 20\%$ at 120Hz , 20°C																																				
Leakage Current (MAX) (20°C)	$I \leq 0.01CV$ or $3(\mu A)$, 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°C)	Shown in the table of standard ratings																																				
Low Temperature Stability Impedance Ratio (MAX)	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="border: none;">WV</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td style="border: none;">$Z(120HZ)$</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="border: none;">$Z(-25^\circ C) / Z(20^\circ C)$</td> <td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td> </tr> <tr> <td style="border: none;">$Z(-40^\circ C) / Z(20^\circ C)$</td> <td>8</td><td>6</td><td>4</td><td>4</td><td>3</td><td>3</td><td>3</td><td>3</td> </tr> </tbody> </table>	WV	6.3	10	16	25	35	50	63	100	$Z(120HZ)$									$Z(-25^\circ C) / Z(20^\circ C)$	4	3	2	2	2	2	2	2	$Z(-40^\circ C) / Z(20^\circ C)$	8	6	4	4	3	3	3	3
WV	6.3	10	16	25	35	50	63	100																													
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Endurance	<p>After applying rated voltage for 2000hrs at 105°C , the capacitors shall meet the following requirements.</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="border: none;">Case (ϕ)</th> <th>$\phi 4$ to $\phi 6.3$</th> <th>$\phi 8$ to $\phi 10$</th> </tr> </thead> <tbody> <tr> <td style="border: none;">Capacitance Change</td> <td>Within $\pm 25\%$ of the initial value</td> <td>Within $\pm 20\%$ of the initial value</td> </tr> <tr> <td style="border: none;">Dissipation Factor</td> <td colspan="2">Not more than 200% of the specified value</td> </tr> <tr> <td style="border: none;">Leakage Current</td> <td colspan="2">Not more than the specified value</td> </tr> </tbody> </table>	Case (ϕ)	$\phi 4$ to $\phi 6.3$	$\phi 8$ to $\phi 10$	Capacitance Change	Within $\pm 25\%$ of the initial value	Within $\pm 20\%$ of the initial value	Dissipation Factor	Not more than 200% of the specified value		Leakage Current	Not more than the specified value																									
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Shelf Life	After placed at 105°C without voltage applied for 1000 hours, the capacitor shall meet the same requirement as Endurance.																																				

Diagram of Dimensions(mm)



$\Phi 8 \sim \Phi 10$ & $\Phi 6.3 \times 7.7 = L \pm 0.3$

() : Reference size

ϕD	L	A	H	I	W	P	K
4.0	5.4	4.3	5.5 Max	1.8	0.65 \pm 0.1	1.0 \pm 0.2	0.35 ^{+0.15} / _{-0.20}
5.0	5.4	5.3	6.5 Max	2.2	0.65 \pm 0.1	1.5 \pm 0.2	0.35 ^{+0.15} / _{-0.20}
6.3	5.4	6.6	7.8 Max	2.6	0.65 \pm 0.1	1.8 \pm 0.2	0.35 ^{+0.15} / _{-0.20}
6.3	7.7	6.6	7.8 Max	2.6	0.65 \pm 0.1	1.8 \pm 0.2	0.35 ^{+0.15} / _{-0.20}
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 0.20
10.0	10.2	10.3	12.0 Max	3.5	0.90 \pm 0.2	4.6 \pm 0.2	0.70 \pm 0.20

Multiplier for Ripple Current

Frequency coefficient

Frequency (Hz)	60	120	1K	10K
Coefficient	0.85	1.00	1.15	1.25

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■ Dimensions, Max Dissipation Factor, Max Permissible Ripple Current

Capacitance (μF)	Rated (Surge) Voltage								
	6.3(8)			10(13)			16(20)		
	Size	$\tan \delta$	Ripple	Size	$\tan \delta$	Ripple	Size	$\tan \delta$	Ripple
10							4x5.4	0.16	28
22	4x5.4	0.3	26	4x5.4	0.22	23	4x5.4	0.16	29
							5x5.4	0.16	39
33	4x5.4	0.30	29	5x5.4	0.22	45	5x5.4	0.16	40
47	4x5.4	0.30	26	5x5.4	0.22	60	5x5.4	0.16	39
	5x5.4	0.30	46	6.3x5.4	0.22	70	6.3x5.4	0.16	70
100	6.3x5.4	0.30	71	6.3x5.4	0.30	71	6.3x5.4	0.20	70
				6.3x7.7	0.30	110	6.3x7.7	0.20	130
220	6.3x5.4	0.35	80	6.3x7.7	0.30	105	8x10.2	0.20	150
	6.3x7.7	0.35	115	8x10.2	0.26	160	10x10.2	0.20	210
330	6.3x7.7	0.35	140	8x10.2	0.30	180	10x10.2	0.20	230
	8x10.2	0.35	230						
470	8x10.2	0.35	230	8x10.2	0.30	220	8x10.2	0.20	240
	10x10.2	0.35	260	10x10.2	0.26	270	10x10.2	0.20	275
1000	10x10.2	0.35	380	10x10.2	0.26	390			
1500	10x10.2	0.35	460						

Capacitance (μF)	Rated (Surge) Voltage								
	25(32)			35(44)			50(63)		
	Size	$\tan \delta$	Ripple	Size	$\tan \delta$	Ripple	Size	$\tan \delta$	Ripple
0.1							4x5.4	0.12	1
0.22							4x5.4	0.12	2
0.33							4x5.4	0.12	3
0.47							4x5.4	0.12	5
1							4x5.4	0.12	10
2.2							4x5.4	0.12	16
3.3							4x5.4	0.12	16
4.7	4x5.4	0.14	22	4x5.4	0.12	22	5x5.4	0.12	23
6.8	4x5.4	0.14	25	4x5.4	0.12	25	5x5.4	0.12	30
10	4x5.4	0.14	25	5x5.4	0.12	30	5x5.4	0.12	35
	5x5.4	0.14	28				6.3x5.4	0.12	40
22	5x5.4	0.14	28	6.3x5.4	0.14	60	6.3x5.4	0.12	35
	6.3x5.4	0.14	55				6.3x7.7	0.12	60
33	6.3x5.4	0.14	65	6.3x7.7	0.14	79	8x10.2	0.12	91
47	6.3x5.4	0.16	65	6.3x7.7	0.14	84	8x10.2	0.12	95
	6.3x7.7	0.16	91	8x10.2	0.14	98	10x10.2	0.12	100
100	6.3x7.7	0.16	100	8x10.2	0.14	98	8x10.2	0.12	120
	8x10.2	0.16	130	10x10.2	0.14	160	10x10.2	0.12	145
220	8x10.2	0.16	150	8x10.2	0.14	210	10x10.2	0.12	210
	10x10.2	0.16	273	10x10.2	0.14	240			
330	10x10.2	0.16	300	10x10.2	0.14	270			
470	10x10.2	0.16	340						

Capacitance (μF)	Rated (Surge) Voltage					
	63(79)			100(125)		
	Size	$\tan \delta$	Ripple	Size	$\tan \delta$	Ripple
3.3				8x10.2	0.18	30
4.7	8x10.2	0.18	25	8x10.2	0.18	80
10	8x10.2	0.18	25	8x10.2	0.18	85
22	10x10.2	0.18	45	10x10.2	0.18	85
33	10x10.2	0.18	45	10x10.2	0.18	90
47	10x10.2	0.18	55	10x10.2	0.18	90

☆Size: D ϕ x L(mm). ☆ $\tan \delta$: 20°C, 120Hz. ☆Ripple Current: 105°C, 120Hz, (mA/rms).