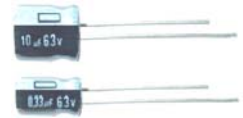


ALUMINUM ELECTROLYTIC CAPACITORS

S7 7mm height Series

- Features : 105°C 1000 hours , 7.0/9.0mm height
- Recommended Applications : For Portable Micro Computer , Disk Driver , Small Calculator and Audio equipment...etc
- Corresponding product to RoHS

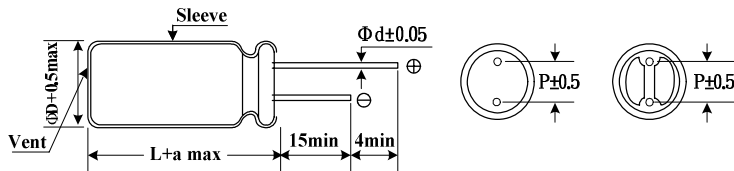
S7
 ↑ High Temperature
 D7



Specifications

Item	Characteristics																											
Operating Temperature Range	-40 ~ +105°C																											
Rated Voltage Range	4 ~ 63VDC																											
Rated Capacitance Range	1 ~ 470µF																											
Capacitance Tolerance	± 20 % at 120Hz , 20°C																											
Leakage Current (MAX) (20°C)	I=0.01CV or 3(µA) , whichever is greater. (After rated voltage applied for 2 minutes)																											
Dissipation Factor (MAX) (tan δ) (120Hz ,20°C)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">WV</td> <td style="text-align: center;">4</td> <td style="text-align: center;">6.3</td> <td style="text-align: center;">10</td> <td style="text-align: center;">16</td> <td style="text-align: center;">25</td> <td style="text-align: center;">35</td> <td style="text-align: center;">50</td> <td style="text-align: center;">63</td> </tr> <tr> <td style="text-align: center;">tan δ</td> <td style="text-align: center;">0.35</td> <td style="text-align: center;">0.24</td> <td style="text-align: center;">0.20</td> <td style="text-align: center;">0.17</td> <td style="text-align: center;">0.15</td> <td style="text-align: center;">0.12</td> <td style="text-align: center;">0.10</td> <td style="text-align: center;">0.08</td> </tr> </table>	WV	4	6.3	10	16	25	35	50	63	tan δ	0.35	0.24	0.20	0.17	0.15	0.12	0.10	0.08									
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Low Temperature Stability Impedance Ratio (MAX)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"> $\frac{WV}{Z(120Hz)}$ </td> <td style="text-align: center;">4</td> <td style="text-align: center;">6.3</td> <td style="text-align: center;">10</td> <td style="text-align: center;">16</td> <td style="text-align: center;">25</td> <td style="text-align: center;">35</td> <td style="text-align: center;">50</td> <td style="text-align: center;">63</td> </tr> <tr> <td style="text-align: center;">Z-25°C / Z+20°C</td> <td style="text-align: center;">6</td> <td style="text-align: center;">4</td> <td style="text-align: center;">3</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">Z-40°C / Z+20°C</td> <td style="text-align: center;">12</td> <td style="text-align: center;">8</td> <td style="text-align: center;">6</td> <td style="text-align: center;">4</td> <td style="text-align: center;">4</td> <td style="text-align: center;">3</td> <td style="text-align: center;">3</td> <td style="text-align: center;">3</td> </tr> </table>	$\frac{WV}{Z(120Hz)}$	4	6.3	10	16	25	35	50	63	Z-25°C / Z+20°C	6	4	3	2	2	2	2	2	Z-40°C / Z+20°C	12	8	6	4	4	3	3	3
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Endurance	After applying rated voltage for 1000 hours at 105°C the capacitors shall meet the following requirements.																											
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Capacitance Change</td> <td>Within ± 20 % of 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>initial specified value or less</td> </tr> </table>	Capacitance Change	Within ± 20 % of initial value	Dissipation Factor	Not more than 200% of the specified value	Leakage Current	initial specified value or less																					
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Shelf Life	After placed at 105°C without voltage applied for 500 hours, the capacitors shall meet the same requirement as Endurance.																											

Diagram of Dimensions



φ D	4.0	5.0	6.3	8.0
P	1.5	2.0	2.5	3.5
φ d	0.45	0.45	0.45	0.5
a	1.0	1.0	1.0	1.0

Multiplier for Ripple Current

Frequency coefficient

Frequency (Hz)	50	120	300	1K	10K
1~47µF	0.75	1.00	1.20	1.30	1.50
100~330µF	0.75	1.00	1.10	1.15	1.20

ALUMINUM ELECTROLYTIC CAPACITORS

S7 7mm height Series

■ Dimensions, Rated Ripple Current

Capacitance (μF)	Rated (Surge) Voltage																
	4 (5)		6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)		63 (79)		
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	
1.0														4x7	10	4x7	13
2.2							4x7	7						4x7	19	4x7	21
3.3							4x7	13						4x7	24	4x7	26
4.7							4x7	19	4x7	24	4x7	24	4x7	29	4x7	26	
											5x7	24	5x7	31	6.3x7	33	
10							4x7	29	4x7	33	4x7	34	4x7	37	5x7	42	
									5x7	35	5x7	36	5x7	45	6.3x7	50	
									6.3x7	35			6.3x7	45			
22			4x7	37	4x7	31	4x7	36	4x7	43	5x7	48	6.3x7	65			
					5x7	38	5x7	44	5x7	51	6.3x7	57					
									6.3x7	53							
33	4X7	30	5x7	42	4x7	39	4x7	50	5x7	55	6.3x7	70					
					5x7	47	5x7	57	6.3x7	65							
47	4X7	35	4x7	46	4x7	50	5x7	75	5x7	67	6.3x7	81					
			5x7	55	5x7	60	6.3x7	77	6.3x7	79							
					6.3x7	60											
68							5x7	84									
100	5X7	55	5x7	75	5x7	85	5x7	94	6.3x7	120							
			6.3x7	90	6.3x7	100	6.3x7	110	8x7	120							
150							6.3x7	120									
220	6.3X7	95	6.3x7	130	6.3x7	135	8x7	140									
							8x9	140									
330			8x7	140			8x9	155									
470					8x9	165	8x9	165									

☆ Size: D φ x L (mm) ☆ Ripple Current: (mA/rms), 105 °C, 120Hz