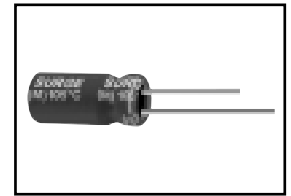


**ALUMINUM ELECTROLYTIC CAPACITORS**

**FEATURES**

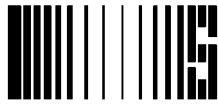
- 105°C, 2000 ~ 5000 HOURS ASSURED
- LOW ESR, SUITABLE FOR SWITCHING POWER SUPPLIES
- SMALLER SIZE WITH LARGE PERMISSIBLE RIPPLE CURRENT



**SPECIFICATIONS**

Items	Performance																																										
<b>Operating Temperature Range</b>	-55°C~+105°C																																										
<b>Capacitance Tolerance</b>	±20% (at 120Hz, 20°C)																																										
<b>Leakage Current (at 20 °C)</b>	I = 0.01CV or 3(μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF. V = rated DC working voltage in V.																																										
<b>Dissipation Factor (Tan δ at 120 Hz, 20 °C)</b>	<table border="1"> <tr> <td>Rated Voltage</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Tan δ (max)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </table> <p>When the capacitance exceeds 1000μF, 0.02 shall be added every 1000 μF increase.</p>	Rated Voltage	6.3	10	16	25	35	50	Tan δ (max)	0.22	0.19	0.16	0.14	0.12	0.10																												
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<b>Low Temperature Characteristics (at 120Hz)</b>	<p>Impedance ratio shall not exceed the values given in the table below.</p> <table border="1"> <tr> <td>Rated Voltage</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Impedance Ratio Z(-55°C)/Z(+20°C)</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	Rated Voltage	6.3	10	16	25	35	50	Impedance Ratio Z(-55°C)/Z(+20°C)	4	4	3	3	3	3																												
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<b>Shelf Life Test</b>	<table border="1"> <tr> <td>Test Time</td> <td>1000 hrs</td> </tr> <tr> <td>Capacitance Change</td> <td>≤ ± 20%</td> </tr> <tr> <td>Dissipation Factor</td> <td>Less than 200% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Within specified value</td> </tr> </table> <p>*The above specifications shall be satisfied when the capacitors are restored to 20 °C after exposing them for 1000 hrs at 105 °C without voltage applied.</p>	Test Time	1000 hrs	Capacitance Change	≤ ± 20%	Dissipation Factor	Less than 200% of specified value	Leakage Current	Within specified value																																		
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Item	V.DC	25V(1E)					35V(1V)					50V(1H)					
		μF	code	Impedance (Ω, Max/100K Hz)		Ripple Current (mA rms) (mA/rms, 105 °C)		ø D X L	Impedance (Ω, Max/100K Hz)		Ripple Current (mA rms) (mA/rms, 105 °C)		ø D X L	Impedance (Ω, Max/100K Hz)		Ripple Current (mA rms) (mA/rms, 105 °C)	
				20°C	-10°C	120Hz	100KHz		20°C	-10°C	120Hz	100KHz		20°C	-10°C	120Hz	100KHz
18	180											5x11	1.10	3.30	91	130	
27	270																
39	390	5x11		0.72	1.80	116	165	6.3x11	0.41	0.82	172	245	6.3x11	0.56	1.60	154	220
56	560	6.3x11		0.44	0.88	165	235										
68	680	6.3x11		0.36	0.72	182	260	6.3x15	0.24	0.48	259	370	8x11.5	0.29	0.84	238	340
82	820	6.3x11		0.38	0.95	179	255										
120	121	6.3x15		0.27	0.68	231	330	8x11.5	0.20	0.50	291	415	8x20	0.18	0.52	427	610
150	151	8x11.5		0.20	0.50	291	415	10x12.5	0.12	0.30	438	625	10x16	0.12	0.30	529	755
180	181	10x12.5		0.12	0.30	438	625	8x15	0.16	0.40	347	495	10x20	0.088	0.22	662	945
220	221	8x15		0.16	0.40	347	495										
330	331	8x20		0.11	0.28	448	640	10x20	0.062	0.16	728	1,040	10x30	0.059	0.15	882	1,260
		10x16		0.084	0.21	578	825						13x20	0.059	0.15	833	1,190
390	391	10x20		0.07	0.14	788	985										
470	471	10x20		0.062	0.16	832	1,040						13x25	0.045	0.110	1,192	1,490
560	561	10x25		0.052	0.13	1,008	1,260										
680	681	10x30		0.046	0.092	1,136	1,420	13x25	0.034	0.085	1,352	1,690	13x35.5	0.033	0.083	1,512	1,890
													16x20	0.043	0.110	1,136	1,420
820	821	10x30		0.044	0.11	1,152	1,440										
		13x20		0.046	0.12	1,072	1,340										
1,000	102	13x25		0.034	0.085	1,352	1,690	13x31.5	0.030	0.075	1,560	1,950	16x31.5	0.029	0.073	1,720	2,150
								16x20	0.038	0.095	1,304	1,630					
1,200	122	13x25		0.032	0.064	1,584	1,760										
1,500	152	13x30		0.030	0.075	1,755	1,950	13x40	0.024	0.060	2,151	2,390					
		16x20		0.038	0.095	1,467	1,630										
1,800	182	13x35.5		0.027	0.068	1,980	2,200										
		16x25		0.028	0.070	1,863	2,070										
2,200	222	13x40		0.024	0.060	2,151	2,390	16x35.5	0.022	0.055	2,295	2,550	18x40	0.020	0.050	2,349	2,610
2,700	272	16x31.5		0.025	0.063	2,115	2,350										
3,300	332	16x35.5		0.022	0.055	2,295	2,550	18x40	0.017	0.043	2,709	3,010					
3,900	392	18x35.5		0.021	0.053	2,394	2,660										
4,700	472	18x40		0.017	0.043	2,709	3,010										