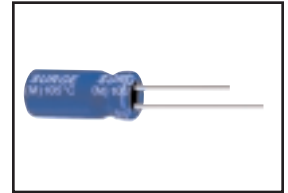




ALUMINUM ELECTROLYTIC CAPACITORS
WIDE TEMPERATURE, LOW LEAKAGE

FEATURES

- 105°C HIGH TEMPERATURE OPERATING RANGE.
- VERY LOW LEAKAGE CURRENT
- USE IN HIGH TEMPERATURE INDUSTRIAL EQUIPMENT

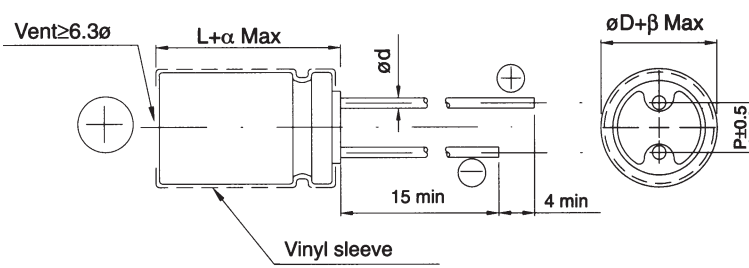


SPECIFICATIONS

Items	Performance																														
Operating Temperature Range	-40°C~+105°C																														
Capacitance Tolerance	±20% (at 120Hz, 20°C)																														
Leakage Current (at 20 °C)	I = 0.002CV or 0.4(μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF. V = rated DC working voltage in V.																														
Dissipation Factor (Tan δ at 120 Hz, 20 °C)	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Rated Voltage</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>Tan δ (max)</td> <td>0.24</td> <td>0.21</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</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	63	100	Tan δ (max)	0.24	0.21	0.16	0.14	0.12	0.10	0.09	0.08												
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Low Temperature Characteristics (at 120 Hz)	<p>Impedance ratio shall not exceed the values given in the table below.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Rated Voltage</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>Impedance Z(-25°C)/Z(+20°C)</td> <td>4</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Ratio Z(-40°C)/Z(+20°C)</td> <td>8</td> <td>6</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	Rated Voltage	6.3	10	16	25	35	50	63	100	Impedance Z(-25°C)/Z(+20°C)	4	3	3	2	2	2	2	2	Ratio Z(-40°C)/Z(+20°C)	8	6	6	4	4	3	3	3			
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Ripple Current & Frequency Multipliers	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">Freq. (Hz)</td> <td>60 (50)</td> <td>120</td> <td>500</td> <td>1K</td> <td>10K up</td> </tr> <tr> <td style="text-align: center;">Cap. (μF)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">Under 100</td> <td>0.75</td> <td>1.00</td> <td>1.35</td> <td>1.55</td> <td>1.90</td> </tr> <tr> <td style="text-align: center;">100 to 1000</td> <td>0.83</td> <td>1.00</td> <td>1.23</td> <td>1.32</td> <td>1.45</td> </tr> <tr> <td style="text-align: center;">1000 up above</td> <td>0.90</td> <td>1.00</td> <td>1.12</td> <td>1.10</td> <td>1.12</td> </tr> </table>	Freq. (Hz)	60 (50)	120	500	1K	10K up	Cap. (μF)						Under 100	0.75	1.00	1.35	1.55	1.90	100 to 1000	0.83	1.00	1.23	1.32	1.45	1000 up above	0.90	1.00	1.12	1.10	1.12
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Standards	Satisfies Characteristic W of JIS C 5141																														



DIAGRAM OF DIMENSIONS



Unit: mm

LEAD SPACING AND DIAMETER

ϕD	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ϕd	0.5			0.6		0.8	
α	1.0			1.5			
β	0.5						

DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: $\phi D \times L$ (mm)
Ripple Current: mA/rms at 120 Hz, 105 °C

VDC	code	6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
		$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA
0.1	0R1											5 x 11	1.3			5 x 11	2.6
0.22	R22											5 x 11	2.9			5 x 11	5.8
0.33	R33											5 x 11	4.4			5 x 11	8
0.47	R47											5 x 11	7			5 x 11	10
1	010											5 x 11	13			5 x 11	15
2.2	2R2											5 x 11	20			5 x 11	23
3.3	3R3											5 x 11	25			5 x 11	29
4.7	4R7							5 x 11	26	5 x 11	28	5 x 11	30	5 x 11	32	5 x 11	34
10	100					5 x 11	35	5 x 11	38	5 x 11	41	5 x 11	46	5 x 11	50	6.3 x 11	56
22	220			5 x 11	49	5 x 11	54	5 x 11	57	5 x 11	61	5 x 11	68	6.3 x 11	82	8 x 11.5	96
33	330	5 x 11	54	5 x 11	60	5 x 11	64	5 x 11	69	5 x 11	75	6.3 x 11	90	6.3 x 11	100	10 x 12.5	140
47	470	5 x 11	65	5 x 11	70	5 x 11	99	5 x 11	82	6.3 x 11	100	6.3 x 11	110	8 x 11.5	135	10 x 16	180
100	101	5 x 11	95	5 x 11	105	6.3 x 11	125	6.3 x 11	135	8 x 11.5	170	8 x 11.5	180	10 x 12.5	225	13 x 20	320
220	221	6.3 x 11	160	6.3 x 11	175	8 x 11.5	215	8 x 11.5	230	10 x 12.5	300	10 x 16	345	10 x 20	400	16 x 25	570
330	331	6.3 x 11	195	8 x 11.5	245	8 x 11.5	260	10 x 12.5	335	10 x 16	400	10 x 20	460	13 x 20	540	16 x 25	700
470	471	8 x 11.5	270	8 x 11.5	290	10 x 12.5	370	10 x 16	440	10 x 20	520	13 x 20	610	13 x 25	700	16 x 31.5	880
1000	102	10 x 12.5	460	10 x 16	550	10 x 20	640	13 x 20	770	13 x 25	920	16 x 25	1080	16 x 31.5	1210		
2200	222	13 x 20	810	13 x 20	860	13 x 25	1000	16 x 25	1170	16 x 31.5	1340	18 x 35.5	1530				
3300	332	13 x 20	960	13 x 25	1100	16 x 25	1300	16 x 31.5	1460	18 x 35.5	1650						
4700	472	16 x 25	1330	16 x 25	1400	16 x 31.5	1600	18 x 35.5	1780	18 x 40	1900						