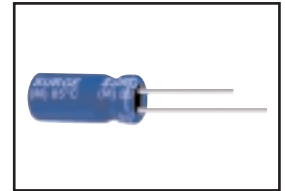




**ALUMINUM ELECTROLYTIC CAPACITORS**  
**NON POLAR, REDUCED SIZE**

**FEATURES**

- NON-POLARIZED SERIES WITH 7MM HEIGHT
- DEVELOPED FOR USE WHERE LOW LEAKAGE CURRENT IS ESSENTIAL
- LEAKAGE CURRENT REMAINS VERY LOW EVEN AFTER PROLONGED STORAGE

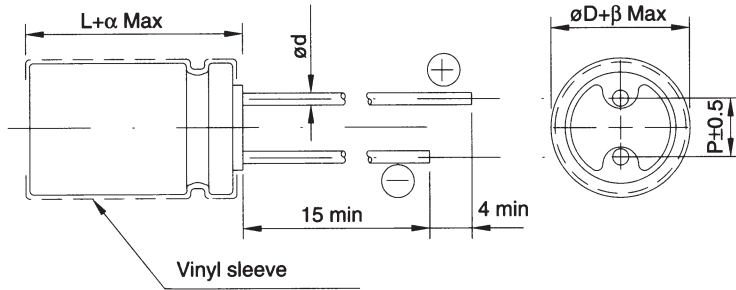


**SPECIFICATIONS**

Items	Performance																											
<b>Operating Temperature Range</b>	-40°C~+85°C																											
<b>Capacitance Tolerance</b>	±20% (at 120Hz, 20°C)																											
<b>Leakage Current (at 20 °C)</b>	I = 0.05CV or 10(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" style="margin-left: auto; margin-right: auto;"> <tr> <td>Rated Voltage</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>Tan δ (max)</td> <td>0.35</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </table>	Rated Voltage	4	6.3	10	16	25	35	50	63	Tan δ (max)	0.35	0.24	0.20	0.16	0.16	0.14	0.12	0.10									
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Tan δ (max)	0.35	0.24	0.20	0.16	0.16	0.14	0.12	0.10																				
<b>Low Temperature Characteristics (at 120 Hz)</b>	Impedance ratio shall not exceed the values given in the table below. <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Rated Voltage</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>Impedance Ratio</td> <td>Z(-25°C)/Z(+20°C)</td> <td>4</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td></td> <td>Z(-40°C)/Z(+20°C)</td> <td>10</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	Rated Voltage	4	6.3	10	16	25	35	50	63	Impedance Ratio	Z(-25°C)/Z(+20°C)	4	4	3	2	2	2	2		Z(-40°C)/Z(+20°C)	10	10	8	6	4	3	3
Rated Voltage	4	6.3	10	16	25	35	50	63																				
Impedance Ratio	Z(-25°C)/Z(+20°C)	4	4	3	2	2	2	2																				
	Z(-40°C)/Z(+20°C)	10	10	8	6	4	3	3																				
<b>Load Life Test (after application of the rated voltage at 85 °C, the polarity inverted every 250hrs.)</b>	<table border="1" style="margin-left: auto; margin-right: auto;"> <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 the rated voltage applied for 1000 hrs at 85°C.</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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<b>Shelf Life Test</b>	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Test Time</td> <td>500 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 500 hrs at 85 °C without voltage applied.</p>	Test Time	500 Hrs	Capacitance Change	≤ ± 20%	Dissipation Factor	Less than 200% of specified value	Leakage Current	Within specified value																			
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<b>Standards</b>	Satisfies Characteristic W of JIS C 5141																											



**DIAGRAM OF DIMENSIONS**



Unit: mm  
**LEAD SPACING AND DIAMETER**

øD	4	5	6.3	8
P	1.5	2.0	2.5	3.5
ø d	0.45	0.5		
α	1.0			
β	0.5			

**DIMENSION & PERMISSIBLE RIPPLE CURRENT**

Dimension: ø D x L(mm)  
Ripple Current: mA/rms at 120 Hz, 85 °C

μF	code	4V (0G)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)	
		ø D x L	mA	ø D x L	mA	ø D x L	mA	ø D x L	mA	ø D x L	mA	ø D x L	mA	ø D x L	mA	ø D x L	mA
0.1	0R1													4 x 7	2.1	4 x 7	2.6
0.22	R22													4 x 7	4.5	4 x 7	5
0.33	R33													4 x 7	5.6	4 x 7	6.1
0.47	R47													4 x 7	6.6	4 x 7	7.3
1	010													4 x 7	9.7	4 x 7	10
2.2	2R2											4 x 7	13	4 x 7	14	5 x 7	16
3.3	3R3									4 x 7	15	5 x 7	16	5 x 7	18	6.3 x 7	20
4.7	4R7							4 x 7	18	5 x 7	18	5 x 7	20	6.3 x 7	22	8 x 7	24
10	100					4 x 7	23	5 x 7	27	6.3 x 7	28	8 x 7	30				
22	220			5 x 7	40	5 x 7	40	6.3 x 7	45	8 x 7	52						
33	330	5 x 7	40	5 x 7	40	6.3 x 7	45	8 x 7	52								
47	470	6.3 x 7	45	6.3 x 7	49	8 x 7	55										
100	101	8 x 7	66														