

Features

- 4 ~ 16 ϕ , 85°C, 2,000 hours assured
- Designed for surface mounting on high density PC board.
- RoHS Compliance



SPECIFICATIONS

Items	Performance																																																
Operating Temperature Range	-40°C ~ +85°C																																																
Capacitance Tolerance	±20% (at 120Hz, 20°C)																																																
Leakage Current (at 20°C)	<table border="1"> <tr> <td rowspan="2">6.3 ~ 100V</td> <td>4 ~ 10 ϕ</td> <td colspan="2">I = 0.01CV or 3μA, whichever is greater, after 2 minutes at 20°C</td> </tr> <tr> <td>12.5 ~ 16 ϕ</td> <td colspan="2">I = 0.03CV or 4μA, whichever is greater, after 2 minutes at 20°C</td> </tr> <tr> <td>160 ~ 450V</td> <td>12.5 ~ 16 ϕ</td> <td colspan="2">I = 0.04CV + 100μA after 5 minutes at +20°C</td> </tr> </table> <p>Where I = leakage current C = rated capacitance in μF. V = rated DC working voltage in V.</p>	6.3 ~ 100V	4 ~ 10 ϕ	I = 0.01CV or 3 μ A, whichever is greater, after 2 minutes at 20°C		12.5 ~ 16 ϕ	I = 0.03CV or 4 μ A, whichever is greater, after 2 minutes at 20°C		160 ~ 450V	12.5 ~ 16 ϕ	I = 0.04CV + 100 μ A after 5 minutes at +20°C																																						
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Dissipation Factor (Tan δ at 120Hz, 20°C)	<table border="1"> <tr> <th>Rated Voltage</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> <th>160 ~ 250</th> <th>400 ~ 450</th> </tr> <tr> <td>4 ~ 10 ϕ</td> <td>0.35</td> <td>0.30</td> <td>0.26</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> <td>0.12</td> <td>-</td> <td>-</td> </tr> <tr> <td>12.5 ~ 16 ϕ</td> <td>0.38</td> <td>0.34</td> <td>0.30</td> <td>0.26</td> <td>0.22</td> <td>0.18</td> <td>0.14</td> <td>0.10</td> <td>0.20</td> <td>0.25</td> </tr> </table> <p>When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase.</p>	Rated Voltage	6.3	10	16	25	35	50	63	100	160 ~ 250	400 ~ 450	4 ~ 10 ϕ	0.35	0.30	0.26	0.16	0.14	0.12	0.12	0.12	-	-	12.5 ~ 16 ϕ	0.38	0.34	0.30	0.26	0.22	0.18	0.14	0.10	0.20	0.25															
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Low Temperature Characteristics (at 120Hz)	<p>Impedance ratio shall not exceed the values given in the table below.</p> <table border="1"> <tr> <th colspan="2">Rated Voltage</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> <th>160 ~ 250</th> <th>400 ~ 450</th> </tr> <tr> <td rowspan="4">Impedance Ratio</td> <td>Z(-25°C) / Z(+20°C)</td> <td>4 ~ 10 ϕ</td> <td>4</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>-</td> <td>-</td> </tr> <tr> <td rowspan="2">Z(-40°C) / Z(+20°C)</td> <td>4 ~ 10 ϕ</td> <td>17</td> <td>10</td> <td>8</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>4</td> <td>-</td> <td>-</td> </tr> <tr> <td>12.5 ~ 16 ϕ</td> <td>-</td> <td>12</td> <td>10</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>6</td> <td>10</td> </tr> </table>	Rated Voltage		6.3	10	16	25	35	50	63	100	160 ~ 250	400 ~ 450	Impedance Ratio	Z(-25°C) / Z(+20°C)	4 ~ 10 ϕ	4	4	3	2	2	2	2	3	-	-	Z(-40°C) / Z(+20°C)	4 ~ 10 ϕ	17	10	8	4	3	3	3	4	-	-	12.5 ~ 16 ϕ	-	12	10	5	4	3	3	3	6	10
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	Load Life Test	<table border="1"> <tr> <td>Test Time</td> <td>2,000 Hrs</td> </tr> <tr> <td>Capacitance Change</td> <td>Within ±20% of initial value</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 2,000 hrs at 85°C.</p>	Test Time	2,000 Hrs	Capacitance Change	Within ±20% of initial value	Dissipation Factor	Less than 200% of specified value	Leakage Current	Within specified value																																							
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Shelf Life Test	Test time: 1,000 hrs; other items are the same as those for the load life test.																																																
Other Standards	JIS C 5101-1, -18																																																

DIAGRAM OF DIMENSIONS

Fig. 1

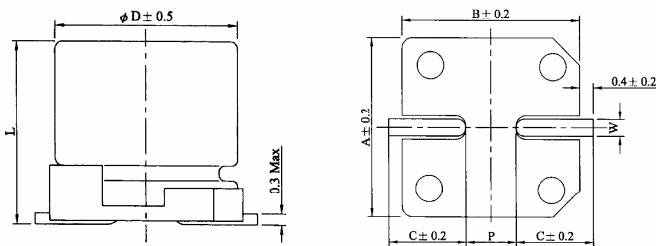
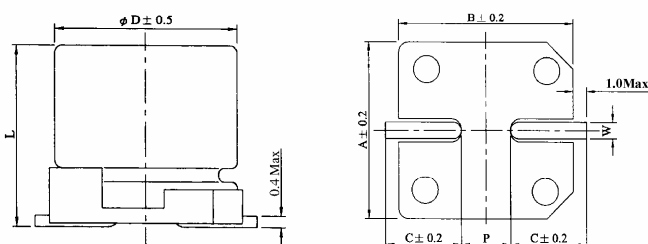


Fig. 2



LEAD SPACING AND DIAMETER

Unit: mm

ϕD	L	A	B	C	W	P±0.2	Fig. No.
4	5.3±0.2	4.3	4.3	2.0	0.5 to 0.8	1.0	1
5	5.3±0.2	5.3	5.3	2.3	0.5 to 0.8	1.5	1
6.3	5.3±0.2	6.6	6.6	2.7	0.5 to 0.8	2.0	1
6.3	7.7±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0	1
8	10±0.5	8.4	8.4	3.0	0.7 to 1.1	3.1	1
8	10.3±0.5	8.4	8.4	3.0	0.7 to 1.1	3.1	1
10	10±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7	1
10	10.3±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7	1
12.5	13.5±0.5	12.8	12.8	4.9	1.1 to 1.4	4.2	2
12.5	16±0.5	12.8	12.8	4.9	1.1 to 1.4	4.2	2
16	16.5±0.5	16.3	16.3	5.8	1.1 to 1.4	6.0	2

