

## LIR Series Low Impedance 低温低阻抗型電容量

### Features

- Used in mother board, computer peripheral, etc.
- Load life 2000~5000 Hrs at 105°C.
- Safety vent construction design.



### Specifications

No	Item	Performance Characteristics																											
1	使用温度範圍 Operating Temperature Range	-55 to + 105°C																											
2	定格電壓範圍 Rated Voltage Range	6.3 to 100 VDC																											
3	靜電容量範圍 Capacitance Range	4.7 to 4700uF																											
4	靜電容量容許差 Capacitance Tolerance	±20%(120Hz, +20°C)																											
5	漏電電流 Leakage Current(+20°C,max)	$I \leq 0.01 CV$ or $3(\mu A)$ After 2 minutes whichever is greater measured with rated working voltage applied.																											
6	損失角 Dissipation Factor(tanδ)	<table border="1"> <tr> <td>Working Voltage (VDC)</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>D.F. (%)Max</td> <td>22</td> <td>19</td> <td>16</td> <td>14</td> <td>12</td> <td>10</td> <td>9</td> <td>8</td> </tr> </table> <p>For capacitance &gt;1000 μ F, add 2% per another 1000 μ F. (+20°C, at 120Hz)</p>	Working Voltage (VDC)	6.3	10	16	25	35	50	63	100	D.F. (%)Max	22	19	16	14	12	10	9	8									
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7	温度特性 Low Temperature Characteristics (120Hz)	<p>Impedance ratio max.</p> <table border="1"> <tr> <td>Working 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>Z(-25°C)/Z(20°C)</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table> <p>For capacitance &gt;1000 μ F, Add 0.5 per another 1000 μ F for Z-25°C / Z+20°C Add 1 per another 1000 μ F for Z-40°C / Z+20°C</p>	Working Voltage	6.3	10	16	25	35	50	63	100	Z(-25°C)/Z(20°C)	4	3	3	3	3	3	2	2	Z(-40°C)/Z(20°C)	8	6	4	3	3	3	3	3
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8	高温負荷特性 Load Life	<p>Test conditions</p> <table border="1"> <tr> <td>Duration time</td> <td>:5000Hrs</td> <td>φ5 φ6.3</td> <td>2000Hr</td> </tr> <tr> <td>Ambient temperature</td> <td>:+105°C</td> <td></td> <td></td> </tr> <tr> <td>Applied voltage</td> <td>:Rated DC working voltage</td> <td>φ8</td> <td>3000Hr</td> </tr> </table> <p>After test requirements at+20°C</p> <ul style="list-style-type: none"> <li>Capacitance change :≤ ±20% of the initial measured value</li> <li>Dissipation factor :≤ 200% of the initial specified value</li> <li>Leakage current :≤The initial specified value</li> </ul>	Duration time	:5000Hrs	φ5 φ6.3	2000Hr	Ambient temperature	:+105°C			Applied voltage	:Rated DC working voltage	φ8	3000Hr															
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9	高温無負荷特性 Shelf Life	<p>Test conditions</p> <ul style="list-style-type: none"> <li>Duration time :1000Hrs</li> <li>Ambient temperature :+105°C</li> <li>Applied voltage :None</li> </ul> <p>After test requirements at +20°C : Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.</p>																											

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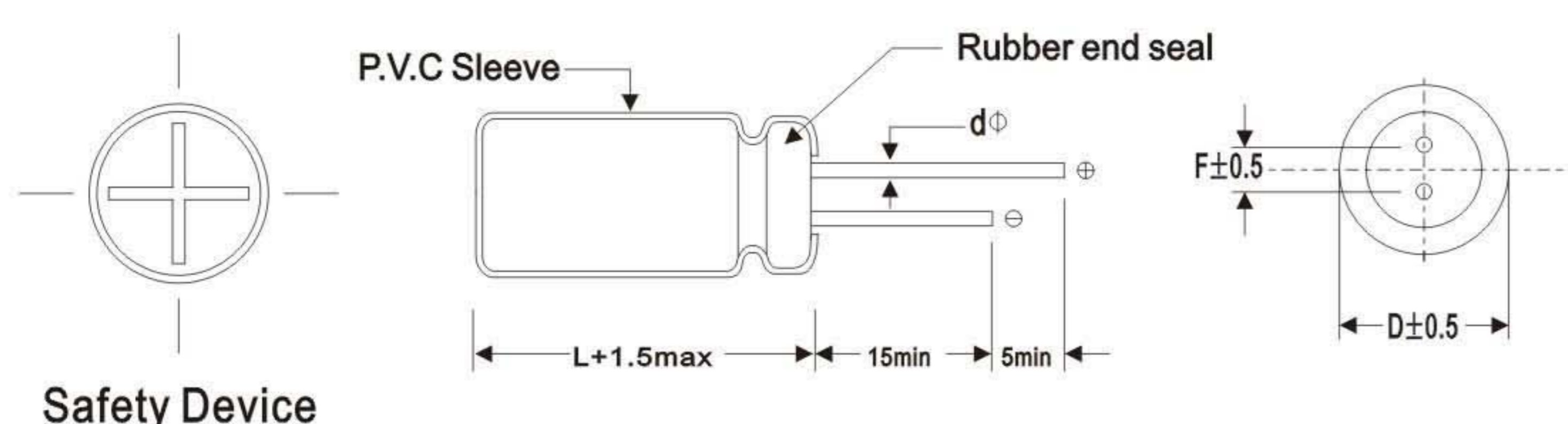
### Multiplier for Ripple Current vs. Frequency

CAP(μ F)\Hz	50(60)	120	400	1K	10K	50K-100K
CAP≤10	0.47	0.59	0.76	0.85	0.97	1.0
10<CAP≤100	0.52	0.62	0.80	0.89	0.97	1.0
100<CAP≤1000	0.58	0.72	0.84	0.90	0.98	1.0
1000<CAP	0.63	0.78	0.87	0.91	0.98	1.0

### Multiplier for Ripple Current vs. Temperature

Temperature°C	45	60	70	85	95	105
Multiplier	1.80	1.50	1.30	1.45	1.20	1.00

### Outline drawing :(Unit:mm)



Dφ	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
dφ		0.5		0.6		0.8	