

## HLR Series Snap-in Type 基板自立型大電容量品

### Features

- Highly reliable capacitors that withstand low ESR & long life.
- Two or three dimensions with same ratings.
- Best for switching power supply



### Specifications

No	Item	Performance Characteristics																						
1	使用温度範囲 Operating Temperature Range	-40 to + 105°C -25 to + 105°C																						
2	定格電壓範囲 Rated working Voltage Range	10 to 100 VDC 160 to 400 VDC																						
3	静電容量範囲 Capacitance Range	560 to 47 000 µ F 56 to 1500 µ F																						
4	静電容量容許差 Capacitance Tolerance	±20%(120Hz, +20°C)																						
5	漏電電流 Leakage Current(+20°C, max)	I ≤0.02CV After 5 minutes with rated working voltage applied.																						
6	損失角 Dissipation Factor(tanδ)	<p>Less than the value under table (%)</p> <table border="1"> <thead> <tr> <th>Working Voltage (VDC)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> <th>160~250</th> <th>350~400</th> </tr> </thead> <tbody> <tr> <td>D.F. (%)Max</td> <td>55</td> <td>40</td> <td>30</td> <td>25</td> <td>20</td> <td>15</td> <td>15</td> <td>15</td> <td>15</td> <td>15</td> </tr> </tbody> </table> <p>(+20°C, at 120 Hz)</p>	Working Voltage (VDC)	10	16	25	35	50	63	80	100	160~250	350~400	D.F. (%)Max	55	40	30	25	20	15	15	15	15	15
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7	温度特性 Low Temperature Characteristics (120Hz)	<p>Impedance ratio at max.</p> <table border="1"> <thead> <tr> <th>Rated voltage (VDC)</th> <th>10, 16</th> <th>25</th> <th>35</th> <th>50, 63</th> <th>80, 100</th> <th>160, 40, 400</th> </tr> </thead> <tbody> <tr> <td>Z-25°C/Z20°C</td> <td>4</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>4</td> </tr> <tr> <td>Z-40°C/Z20°C</td> <td>15</td> <td>10</td> <td>8</td> <td>6</td> <td>5</td> <td>-</td> </tr> </tbody> </table>	Rated voltage (VDC)	10, 16	25	35	50, 63	80, 100	160, 40, 400	Z-25°C/Z20°C	4	3	3	2	2	4	Z-40°C/Z20°C	15	10	8	6	5	-	
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8	高温負荷特性 Load Lifre	<p>Test conditions</p> <p>Duration time :5000Hrs Ambient temperature :+105°C Applied voltage :Rated DC working voltage</p> <p>After test requirements at +20°C</p> <p>Capacitance change :≤ ±25% of the initial measured value Dissipation factor :≤ 250% of the initial specified value Leakage current :≤ The initial specified value</p>																						
9	高温無負荷特性 Shelf Lifre	<p>Test conditions</p> <p>Duration time :1000Hrs Ambient temperature :+105°C Applied voltage :None</p> <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>																						