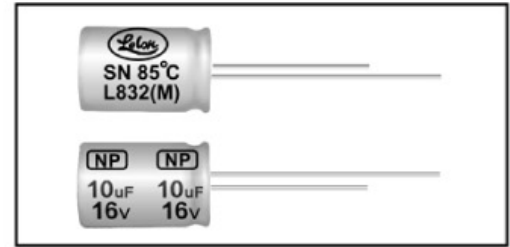


Feature

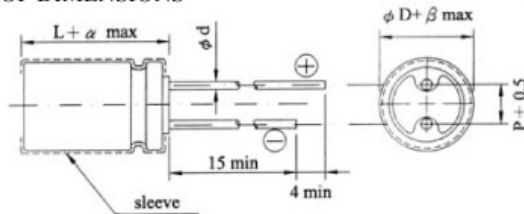
- 85°C, 1,000 hours assured, bi-polarized series with 7mm height
- Suitable for use in circuits which has a reversed or unknown polarity
- RoHS Compliance



SECIFICATIONS

Items	Performance																													
Operating Temperature Range	-40°C ~ +85°C																													
Capacitance Tolerance	±20% (at 120Hz, 20°C)																													
Leakage Current (at 20°C)	$I = 0.05CV$ or $10 (\mu A)$ whichever is greater (after 2 minutes) Where, C = rated capacitance in μF V = rated DC working voltage in V																													
Dissipation Factor (Tan δ at 120Hz, 20°C)	<table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> </tr> </thead> <tbody> <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> </tbody> </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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Low Temperature Characteristics (at 120Hz)	<p>Impedance ratio shall not exceed the values given in the table below.</p> <table border="1"> <thead> <tr> <th colspan="2">Rated Voltage</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> </tr> </thead> <tbody> <tr> <td rowspan="2">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> <td>2</td> </tr> <tr> <td>Z(-55°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> <td>3</td> </tr> </tbody> </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	2	Z(-55°C)/Z(+20°C)	10	10	8	6	4	3	3	3
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Impedance Ratio	Z(-25°C)/Z(+20°C)	4	4	3	2	2	2	2	2																					
	Z(-55°C)/Z(+20°C)	10	10	8	6	4	3	3	3																					
Load Life Test (After application of the rated voltage at 85°C, the polarity inverted every 250 hrs.)	<table border="1"> <thead> <tr> <th>Test Time</th> <th>1,000 hrs</th> </tr> </thead> <tbody> <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> </tbody> </table> <p>* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 1,000 hrs at 85°C.</p>	Test Time	1,000 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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Dissipation Factor	Less than 200% of specified value																													
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Shelf Life Test	Test time: 500 hrs; other items are the same as those for the load life test.																													

DIAGRAM OF DIMENSIONS



LEAD SPACING AND DIAMETER Unit: mm

ϕD	4	5	6.3	8
P	1.5	2.0	2.5	3.5
ϕd	0.45	0.5		
α	1.0			
β	0.5			

DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: $\phi D \times L$ (mm)

Ripple Current: mA/rms at 120 Hz, 85°C

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