LNP Series 105℃

無極性標準型系列

Features

- LNP Series for crossover networks of high-pitched. Mean and Low-pitched sounds in high-fidelity sound systems.
- The series offers excellent frequency characteristics and minimal Capacitance deviation with frequency.

Specifications

<table>
<tr><th>Item</th><th colspan="2">Performance Characteristics</th></tr>
<tr><td>Operating Temperature Range</td><td>-40 to + 105℃</td><td>-25 to + 105 ℃</td></tr>
<tr><td>Rated voltage Range</td><td>6.3 to 100 VDC</td><td>160 to 250 VDC</td></tr>
<tr><td>Capacitance Range</td><td colspan="2">0.47 to 1000 uF.</td></tr>
<tr><td>Capacitance Tolerance</td><td colspan="2">±20%[120Hz +20 ℃]</td></tr>
<tr><td>Leakage Current[+20℃.max.]</td><td colspan="2">1≦0.03 CV or 3(uA) After 1 minute
whichever is greater measured with rat working voltage applied..</td></tr>
<tr><td>Dissipation Factor[tan δ]</td><td colspan="2">
<table>
<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><td>160</td><td>200</td><td>250</td></tr>
<tr><td>D.F.(%)max</td><td>26</td><td>24</td><td>22</td><td>20</td><td>16</td><td>14</td><td>12</td><td>10</td><td>20</td><td>20</td><td>20</td></tr>
</table>
[+20℃ , at 120Hz]
.
</td></tr>
<tr><td>LowTemperature Characteristics [120Hz]</td><td colspan="2">Impedance ratio max
<table>
<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><td>160</td><td>200</td><td>250</td></tr>
<tr><td>z-25℃/z+20℃</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr>
<tr><td>z-40℃/z+20℃</td><td>10</td><td>8</td><td>6</td><td>5</td><td>4</td><td>4</td><td>3</td><td>3</td><td></td><td></td><td></td></tr>
</table>
For Capacitance Value 1000uF, add 0.5 per another 1000uF for-25℃/+20℃
add 1 per another 1000uF for -40℃/+20℃</td></tr>
<tr><td>Load Life</td><td colspan="2">Test conditions
Duration time :1000Hrs
Ambient temperature: +105℃
Applied voltage: Rated DC working voltage
After test requirements: at +20%
Dissipation Factor: ≦+150% of the initial specified value
Leakage current: ≦ The initial specified value</td></tr>
<tr><td>Shelf Life</td><td colspan="2">Test conditions
Duration time :500 Hrs
Ambient temperature :+105 ℃
Applied voltage: None
After test requirements at +20 ℃: Some limits as Load life.
Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.</td></tr>
</table>

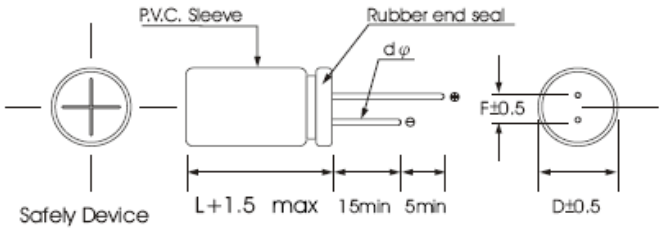
Multiplier for Ripple Current vs. Frequency

CAP (uF)\Hz		50(60)	120	400	1k	10k	50k-100k
Multiplier	CAP≦10	0.8	1	1.30	1.45	1.65	1.70
	10＜CAP≦100	0.8	1	1.23	1.36	1.48	1.53
	100＜CAP≦1000	0.8	1	1.16	1.25	1.35	1.38
	1000＜CAP						

Multiplier for ripple current vs. Temperature

Temperature℃	45	60	70	85	95	105
Multiplier	2.10	1.90	1.65	1.40	1.25	1.00

Diagram of Dimensions:(Unit:mm)



DΦ	5	6.3	8	10	13	16
F	2.0	2.5	3.5	5.0	5.0	7.5
dΦ	0.5			0.8		1.0

Case Size

ΦDXL(mm)

w.v. / uF	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (79)	100 (125)	160 (200)	200 (250)	250 (300)
0.47	→	→	→	→	→	5×11	5×11	5×11	6x12	6x12
1	→	→	→	→	→	5×11	6×12	6x12	8×12	8×12
2.2	→	→	→	→	→	5×11	6×12	6×12	8×12	10×13
3.3	→	→	→	→	→	5×11	6×12	8×12	10×13	10×17
4.7	→	→	→	→	5×11	5×11	6×12	10×13	10×17	10×20
10	→	→	5×11	5×11	6×12	6×12	8×12	10×17	10×20	10×20
22	5x11	5×11	5×11	6×12	6×12	8×12	10×17	13×21	13×21	13×25
33	5×11	5×11	6×12	6×12	8×12	10×13	10×20	13×21	13×25	16×25.5
47	5×11	6×12	6×12	8×12	10×13	10×17	13×21	13×25	-	-
100	6×12	6×12	8×12	10×13	10×20	13×21	16×25.5	-	-	-
220	8×12	10×13	10×13	10×17	13×25	13×25	-	-	-	-
330	10×13	10×13	10×17	13×21	16×25.5	-	-	-	-	-
470	10×13	10×17	13×21	13×25	-	-	-	-	-	-
1000	10×20	13×21	-	-	-	-	-	-	-	-

Maximum Ripple Current

(mA. 120K Hz at+105℃)

W.V / Uf	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (79)	100 (125)	160 (200)	200 (250)	250 (300)
0.47	→	→	→	→	11	12	14	17	21	28
1	→	→	→	→	17	18	21	25	28	34
2.2	→	→	→	→	25	26	34	38	42	50
3.3	→	→	→	→	27	28	39	43	47	57
4.7	→	→	→	→	34	34	47	52	56	89
10	→	→	34	43	52	57	71	89	95	135
22	→	57	65	73	89	95	135	150	180	220
33	64	70	80	100	105	135	220	23	265	320
47	76	95	95	120	150	180	240	265	280	-
100	125	160	160	230	265	320	425	-	-	-
220	215	275	305	410	480	575	-	-	-	-
330	345	375	450	505	650	-	-	-	-	-
470	410	485	540	655	-	-	-	-	-	-
1000	720	855	-	-	-	-	-	-	-	-