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

Item	Performance Characteristics	
Operating Temperature Range	-40 to + 105℃	-25 to + 105℃
Rated voltage Range	6.3 to 100 VDC	160 to 250 VDC
Capacitance Range	0.47 to 1000 uF.	
Capacitance Tolerance	±20%[120Hz +20℃]	
Leakage Current[+20℃.max.]	1≦0.03 CV or 3(uA) After 1 minute whichever is greater measured with rat working voltage applied..	
Dissipation Factor[tan δ]	<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>25</td><td>25</td><td>20</td><td>15</td><td>15</td><td>13</td><td>10</td><td>10</td><td>15</td><td>15</td><td>20</td></tr></table>[+20℃ , at 120Hz] .	
LowTemperature Characteristics [120Hz]	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>3</td></tr><tr><td>z-40℃/z+20℃</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><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℃	
Load Life	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	
Shelf Life	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.	

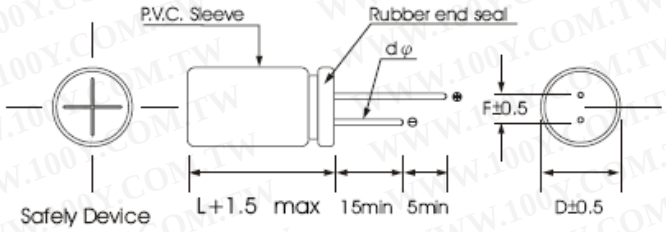
Multiplier for Ripple Current vs. Frequency

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	5×11	6.3×11	6.3×11
1	→	→	→	→	5×11	5×11	5×11	6.3×11	8×11.5	8×11.5
2.2	→	→	→	→	5×11	5×11	5×11	8×11.5	8×11.5	10×12.5
3.3	→	→	→	→	5×11	6.3×11	6.3×11	8×11.5	10×12.5	10×16
4.7	→	→	→	→	5×11	6.3×11	8×11.5	10×12.5	10×16	10×20
10	→	→	5×11	5×11	6.3×11	6.3×11	8×11.5	10×16	10×20	10×20
22	→	5×11	6.3×11	6.3×11	8×11.5	8×11.5	10×16	13×20	13×20	13×25
33	5×11	6.3×11	6.3×11	8×11.5	8×11.5	10×12.5	13×20	13×20	13×20	16×25
47	5×11	6.3×11	6.3×11	8×11.5	10×12.5	10×16	13×20	13×25	13×25	-
100	6.3×11	6×11.5	8×11.5	10×12.5	10×20	13×20	13×25	-	-	-
220	8×11.5	10×12.5	10×12.5	10×20	13×25	13×25	-	-	-	-
330	10×12.5	10×12.5	10×16	13×20	16×25	-	-	-	-	-
470	10×12.5	10×16	13×20	13×25	-	-	-	-	-	-
1000	10×20	13×20	-	-	-	-	-	-	-	-

Maximum Ripple Current

(mA. 120K Hz at+)

Uf \ W.V.	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	-	-	-	-	-	-	-	-