

## LNS Series 105 °C

### Features

- Non-polarized with 5 mm 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
- For detail specifications, please refer to Engineering Bulletin No. E118



### Specifications

Item	Performance Characteristics
Operating Temperature Range	-40 °C to +105 °C
Rated voltage Range	6.3 to 50 VDC
Capacitance Range	0.1 to 47 uF
Capacitance Tolerance	±20 % (120 Hz, +20 °C)
Leakage Current (+20 °C, max.)	1 ≤ 0.05 CV or 10 (uA) After 2 minutes whichever is greater measured with rate working voltage applied.
Dissipation Factor (tan δ)	Working Voltage (VDC)
	D.F. (%) max (+ 20 °C, at 120 Hz)
Low Temperature Characteristics (120 Hz)	Impedance ratio max.
	Working Voltage (VDC)
	Z-25 °C/Z+20 °C
Load Life	Z-40 °C/Z+20 °C
	Test conditions Duration time: 1000 Hrs Ambient temperature: +105 °C Applied voltage: Rated DC working voltage to each polarity ror 500 Hz After test requirements: at + 20 % Capacitance change: ≤ ±20% of the initial measured value(4V: ≤ ± 30 %) Dissipation Factor: ≤ 200 % of the initial measured value Leakage current: ≤ The initial specified value
Shelf Life	Test conditions Duration time: 500 Hrs Ambient temperature: + 105°C Applied voltage: None After test requirements at +20 °C: Some limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.

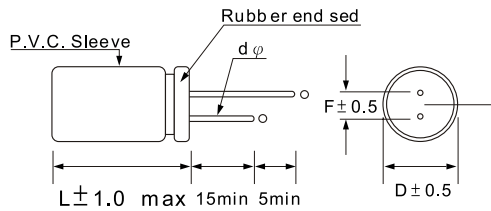
#### Multiplier for Ripple Current vs. Frequency

CAP(uF)\Hz	50(60)	120	1K	10K≤
Multiplier	0.8	1	1.30	1.45

#### Multiplier for Ripple Current vs. Temperature

Temperature °C	50≥	60	70	85
Multier	1.8	1.7	1.6	1.00

## Diagram of Dimensions: (Unit: mm)



Dφ	4	5	6.3
F	1.5±0.5	2.0±0.5	2.5±0.5
dφ	0.45		

## Case Size

φD x L (mm)

W.V. uF	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)
0.1	—	—	—	—	→	4x5
0.22	—	—	—	—	→	4x5
0.33	—	—	—	—	→	4x5
0.47	—	—	—	—	→	4x5
1	—	—	—	—	→	4x5
2.2	—	—	—	→	4x5	5x5
3.3	—	→	4x5	5x5	5x5	5x5
4.7	—	→	4x5	5x5	5x5	6.3x5
10	4x5	4x5	5x5	6.3x5	6.3x5	-
22	5x5	6.3x5	6.3x5	-	-	-
33	6.3x5	6.3x5	6.3x5	-	-	-
47	6.3x5	-	-	-	-	-

## Maximum Ripple Current

(mA, rms, . 120 Hz at 105 °C)

W.V. uF	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)
0.1	—	—	—	—	→	1.0
0.22	—	—	—	—	→	2.0
0.33	—	—	—	—	→	2.8
0.47	—	—	—	—	→	4.0
1	—	—	—	—	→	8.0
2.2	—	—	—	→	8.0	10
3.3	—	→	10	13	14	15
4.7	—	→	12	15	16	18
10	15	17	23	25	28	-
22	27	31	35	-	-	-
33	35	40	47	-	-	-
47	43	-	-	-	-	-