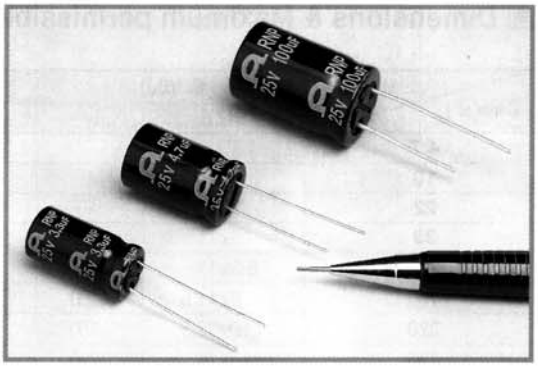
RNP SERIES

Speaker Network, Bi-Polar, Radial Leads

▣ Features

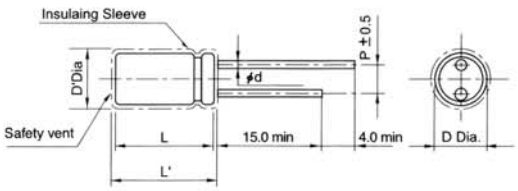
- Bi-polar, Radial
- For speaker crossover networks, Hi-fi audio.
- Excellent frequency characteristics
- Low dissipation factor
- Load life of 1000 hours at 85˚C



▣ Specifications

Item	Performance Characteristics		
Operating temperature range	−40˚C ~ +85˚C		
Rated working voltage range	25V ~ 50V		
Nominal capacitance range	1.0㎌ ~ 100㎌, ±20% or ±10%(at 20˚C, 120Hz)		
D.C Leakage current(at 20˚C)	The following specifications shall be satisfied when the rated voltage is applied for the required time. I ≤ 0.04CV + 10㎂(5 min) Where I=Leakage current(㎂) C=Nominal capacitance(㎌) V=Rated voltage(V)		
Tan δ(max., at 20˚C, 120Hz)	W.V(V)	25	50
	120Hz	0.1	0.075
	10KHz(10㎌ ≥)	0.2	0.1
	1KHz(10㎌ <)	0.2	0.1
Characteristics of impedance	W.V(V)	25	50
	Impedance constant(Ω-㎌)	15	12
	*Impedance(Ω) at 20KHz x Nominal capacitance(㎌)		
Load life	After applying rated working voltage for 1000 hours at +85˚C with the polarity inverted every 250 hours and then being stabilized at +20˚C, capacitors shall meet following limits.		
	Capacitance change	Within ±20% of the initial measured value	
	Tan δ	≤ 200% of the initial specified value	
	Leakage current	≤ The initial specified value	
Shelf life	After storage for 500hours at +85˚C with no voltage applied and then being stabilized at +20˚C, capacitors shall meet following limits.		
	Capacitance change	Within ±20% of the initial measured value	
	Tan δ	≤ 150% of the initial specified value	
	Leakage current	≤ 200% of the initial specified value	

▣ Dimensions



• Standard lead style

ϕD	10.0	12.5	16.0	18.0
p	5.0		7.5	
ϕd	0.6		0.8	

D'= [D+0.5]Max. L' = [L+1.5]Max. at D ≥ 10.0

▣ Dimensions & Maximum permissible ripple current

ϕD x L(mm)

W.V(V) / Cap(㎌)	25(1E)		50(1H)	
	Case Size	I_R	Case Size	I_R
1.0	10x16	33	10x20	38
1.5	10x20	40	10x20	46
2.2	10x20	48	12.5x25	71
3.3	10x20	59	12.5x25	88
4.7	12.5x20	82	12.5x25	104
6.8	12.5x20	98	12.5x25	126
10	12.5x20	121	12.5x25	153
15	12.5x20	150	12.5x25	187
22	12.5x20	180	12.5x25	226
33	12.5x25	237	16x25	312
47	12.5x25	290	16x25	373
68	12.5x25	340	16x25	441
100	16x25	474	18x31.5	638

I_R: Maximum permissible ripple current[mA(rms) at 85˚C,120Hz]