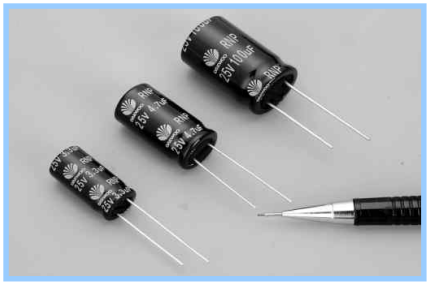
RNP SERIES

85℃, Bi-Polar, Radial Leads

▣ Features

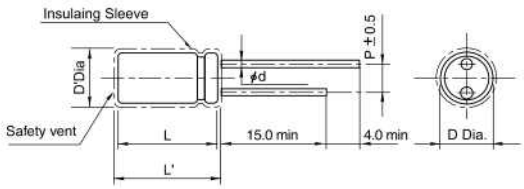


- **Bi-Polar, Low dissipation factor**
- **Excellent frequency characteristics**
- **For speaker crossover networks, Hi-Fi audio**
- **Load life of 1,000 hours at 85℃**

▣ Specifications

Item	Performance Characteristics		
Operating temperature range	-40℃ ~ +85℃		
Rated working voltage range	25V ~ 50V		
Nominal capacitance range	1.0 μF ~ 100 μF , ±20% (at 20℃, 120Hz)		
D.C Leakage current(at 20℃)	The following specifications shall be satisfied when the rated voltage is applied for the required time.		
	I ≤ 0.04CV + 10μA (5min)		
	Where I = Leakage current(μA)	C = Nominal capacitance(μF)	V = Rated voltage (V)
Tan δ (max., at 20℃, 120Hz)	W.V	25	50
	120Hz	0.1	0.075
	10KHz(10μA ≥)	0.2	0.1
	1KHz(10μA <)	0.2	0.1
Characteristics at low temperature(max.) (impedance ratio at 120Hz)	W.V(V)	25	50
	Impedance constant(Ω-μA)	15	12
	*Impedance(Ω) at 20KHz x nominal capacitance(μA)		
Load life	After applying rated working voltage for 1,000hours at +85℃ and then being stabilized at +20℃, during this test, the voltage shall be reversed on the capacitor every 250hrs, 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 1,000hours at + 85℃ with no voltage applied and then being stabilized at +20℃, capacitors shall meet following limits.		
	Capacitance change	Within ± 20% of the initial measured value	
	Tan δ	≤200% of the initial specified value	
	Leakage current	≤200%The initial specified value	

▣ Dimensions



・Standard lead style

ΦD	5.0	6.3	8.0	10.0	12.5	16.0	18.0
P	2.0	2.5	3.5	5.0		7.5	
Φd	0.5		0.6			0.8	

D' = [D+0.5] Max. L' = [L+1.5] Max. at D≤8.0

L' = [L+2.0] Max. at D≤10.0

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▣ Dimensions & Maximum permissible ripple current

μF \ V	25	50
1.0	10 x 16 33	10 x 20 38
1.5	10 x 20 40	10 x 20 46
2	10 x 20 48	12.5 x 25 71
3	10 x 20 59	12.5 x 25 88
5	12.5 x 20 82	12.5 x 25 104
7	12.5 x 20 98	12.5 x 25 126
10	12.5 x 20 121	12.5 x 25 153
15	12.5 x 20 150	12.5 x 25 187
22	12.5 x 20 180	12.5 x 25 226
33	12.5 x 25 237	16 x 25 312
47	12.5 x 25 290	16 x 25 373
68	12.5 x 25 340	16 x 25 441
100	16 x 25 474	18 x 31.5 638
	Case size : ΦD x L(mm) Maximum permissible ripple current[mA(rms) at 85℃, 120㎐]	