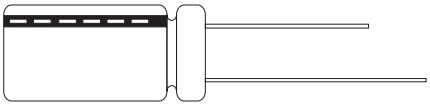
ALUMINUM ELECTROLYTIC CAPACITORS
RN Series: Radial Non-Polar

FEATURES

- 85°C, 2000 hours assured, standard non-polarized series.
- Suitable for use in circuits which have a reversed or unknown polarity.
- Bi-Polar types available (RB) (RBS) (RBL) (RBG) (RBK) (RS) (RSG)
- Super miniature size (SN) available..



SPECIFICATIONS

Item	Performance
Operating Temp.	-40° ~ +85°C
Capacitance Tolerance	± 20% (120Hz, 20°C)
Leakage Current (at 20°C)	Rated Voltage: ≤ 100V / ≥ 100V Time: After 2 minutes / After 5 minutes Leakage Current: I=0.03CV or 4 (μA) whichever is greater / CV ≤ 1000: I=0.03CV +15 (μA) / CV > 1000: I=0.02CV +25 (μA) Where, C = rated capacitance in μF, V = rated DC working voltage in V.
Dissipaton Factor Tan δ at 120 Hz, 20°C	Rated Voltage: 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 / 160 / 200 / 250 Tan δ (max): 0.25 / 0.22 / 0.18 / 0.16 / 0.14 / 0.12 / 0.10 / 0.09 / 0.15 / 0.15 / 0.20 When the capacitance exceeds 1000 F, 0.02 shall be added every 1000 F increase
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below. Rated Voltage: 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 / 160 / 200 / 250 Impedance Ratio Z(-25°C)/Z(+20°C): 4 / 3 / 3 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 Impedance Ratio Z(-40°C)/Z(+20°C): 8 / 6 / 6 / 4 / 4 / 3 / 3 / 3 / 4 / 4 / 4
Load Life Test at 20°C (after rated voltage is applied for 2000 hours at 85°C)	Test Time: 2000 Hrs Capacitance Change: ≤ ± 20% Dissipation Factor: Less than 200% of specifiec value Leakage Current: Within specified values
Shelf Life Test at 20°C after rated voltage applied for 2000 hours at 85°C)	Test Time: 1000 Hrs Capacitance Change: ≤ ± 20% Dissipation Factor: Less than 200% of specified value Leakage Current: Within specified value
Standards	Satisfies Characteristic W of JIS C 5141

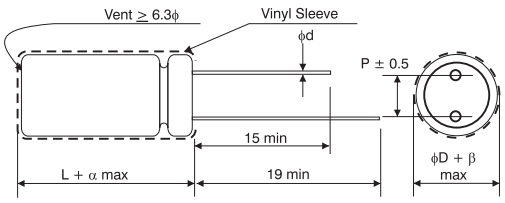
DIMENSIONS & PERMISSABLE RIPPLE CURRENT

Dimension: ϕD×L(mm); Ripple Current: mA/RMS at 120Hz 85°C

μF \ VDC	Code	6.3V(0J)		10V(1A)		16V(1C)		25V(1E)		35V(1V)		50V(1H)		63V(1J)H)		100V(2A)		160V(2C)		200V(2D)		250V(2E)	
		ϕDXL	mA	ϕDXL	mA	ϕDXL	mA	ϕDXL	mA	ϕDXL	mA	ϕDXL	mA	ϕDXL	mA	ϕDXL	mA	ϕDXL	mA	ϕDXL	mA	ϕDXL	mA
0.1	0R1											5 x 11	4	5 x 11	5	5 x 11	5						
0.22	R22											5 x 11	7	5 x 11	8	5 x 11	8						
0.33	R33											5 x 11	8	5 x 11	10	5 x 11	10						
0.47	R47											5 x 11	10	5 x 11	12	5 x 11	12	5 x 11	10	6.3 x 11	10	6.3 x 11	12
1	010											5 x 11	15	5 x 11	18	6.3 x 11	23	6.3 x 11	14	8 x 11.5	16	8 x 11.5	16
2.2	2R2											5 x 11	23	5 x 11	25	6.3 x 11	26	8 x 11.5	23	8 x 11.5	28	10 x 12.5	32
3.3	3R3											5 x 11	28	5 x 11	31	6.3 x 11	32	8 x 11.5	33	10 x 12.5	33	10 x 16	46
4.7	4R7											5 x 11	33	6.3 x 11	37	8 x 11.5	44	10 x 12.5	39	10 x 16	46	10 x 20	62
10	100					5 x 11	40	5 x 11	42	6.3 x 11	46	8 x 11.5	55	8 x 11.5	61	8 x 11.5	66	10 x 16	75	10 x 20	83	10 x 20	99
22	220	5 x11	50	5 x 11	56	5 x 11	59	6.3 x 11	63	8x 11.5	76	8 x 11.5	82	10 x 12.5	108	10 x 16	118	13 x 20	146	13 x 20	146	13 x 25	172
33	330	5 x11	62	5 x 11	69	6.3 x 11	73	6.3 x 11	78	8x 11.5	94	8 x 11.5	104	10 x 16	137	10 x 20	152	13 x 20	179	13 x 25	197	16 x 25	211
47	470	5 x11	74	6.3 x 11	83	6.3 x 11	88	8 x 11.5	105	8x 11.5	115	10 x 16	150	10 x 20	172	13 x 20	193	13 x 25	235				
100	101	6.3 x11	108	8 x 11.5	137	8 x 11.5	149	10 x 12.5	182	10x 16	202	10 x 20	229	13 x 20	267	16 x 25	315						
220	221	8 x11.5	181	10 x 12.5	242	10 x 16	265	10 x 16	294	13x 20	335	13 x 25	378	16 x 25	443	16 x 35.5	498						
330	331	8 x11.5	236	10 x 16	308	10 x 20	340	13 x 20	384	13x 25	429	16 x 25	496	16 x 31.5	653								
470	471	10 x 16	329	10 x 20	385	13 x 20	432	13 x 25	479	16x 25	548	16 x 31.5	614	18 x 40	787								
1000	102	10 x 20	502	13 x 20	598	13 x 25	659	16 x 31.5	775	16x 35.5	852	18 x 40	1048										
2200	222	13 x 25	829	16 x 25	992	16 x 35.5	1114	18 x 40	1347														

LEAD SPACING AND DIAMETER

ϕ D	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ϕ d	0.5		0.6			0.8	
α	1.0			1.5			
β	0.5						



PART NUMBER EXAMPLE

RN 010 M 2A BK 063 110

RFE International • Tel:(949) 833-1988 • Fax:(949) 833-1788 • E-Mail Sales@rfeinc.com