

# Aluminum Electrolytic Capacitors



Radial Bi-Polar 85°C

## RDBP

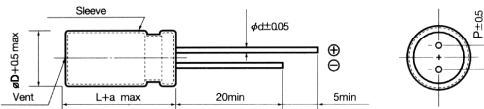
Series

- Used in crossover networks.
- Used in reversing circuits which need higher ripple current and lower D.F.

### SPECIFICATION

ITEM	SPECIFICATION						
Capacitance Tolerance (1KHz 20°C)	±10% (K)						
Rated Working Voltage	25WV ~ 100WV						
Operation Temperature Range	-40 ~ +85°C						
Surge Voltage(V) (20°C)	WV	25	35	50	63	80	100
	SV	32	44	63	79	100	125
Leakage Current (20°C)	I ≤ 0.03 CV or 3 Whichever is greater						
	After applying rated voltage for 3 minutes						
	Where	I : Leakage Current (μA)		C : Capacitance (μF)		V : Rated Voltage (V)	
Dissipation Factor (tan δ) (1KHz 20°C)	WV	25	35	50	63	80	100
	DF	0.12	0.11	0.10	0.09	0.08	0.07
Load Life	After 1000 hours application of W.V. at 85°C, the capacitor shall meet the following limits						
	Capacitance Change				≤ ±10 % of Initial Value		
	Dissipation Factor				≤ 200 % of Initial Specified Value		
	Leakage Current				≤ Initial Specified Value		
Shelf Life	After 500 hours to place at 85°C without rated voltage applied, the capacitor shall meet the limits as same as load life.						
Others	Satisfied JIS C-5141						

### DIMENSIONS (unit:mm)



ØD	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Ød	0.5	0.5	0.6	0.6	0.6	0.8	0.8
a	1.0	1.0	1.0	1.0	2.0	2.0	2.0

### RIPPLE CURRENT COEFFICIENTS

Frequency Multipliers

Freq.(Hz)	60	120	1K	10K	100K
WV					
23-35	0.80	0.9	1.0	1.60	1.80
50-100	0.80	0.9	1.0	1.70	2.00

Temperature Multipliers

Temp. (°C)	~75	85
Coefficient	1.40	1.00

### CASE SIZE & MAX RIPPLE CURRENT

CASE SIZE ØDXL (mm)

MAX RIPPLE CURRENT (mA/85°C, 1KHz)

CAP Code	WV	25		35		50		63		80		100	
		µF	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL
0R1	1.0											6.3x11	68
1R5	1.5											6.3x11	83
2R2	2.2									6.3x11	92	8x11	110
3R3	3.3							6.3x11	105	8x11	130	8x11	140
4R7	4.7							8x11	145	8x11	155	10x12.5	200
5R6	5.6					6.3x11	130	8x11	160	10x12.5	200	10x12.5	215
6R8	6.8					8x11	170	8x11	180	10x12.5	220	10x12.5	235
8R2	8.2					8x11	185	8x11	195	10x12.5	245	10x15	290
100	10			6.3x11	170	8x11	205	10x12.5	255	10x12.5	270	10x15	320
150	15	5x11	200	8x11	240	10x12.5	295	10x12.5	310	10x17	390	10x20	445
220	22	8x11	280	10x12.5	340	10x12.5	360	10x15	420	10x20	505	13x20	625
330	33	8x11	340	10x12.5	420	10x17	515	10x20	580	13x20	720	13x25	845
470	47	10x12.5	480	10x15	555	10x20	660	13x20	805	13x25	945	16x26	1155
560	56	10x12.5	520	10x17	640	13x20	835	13x20	880	13x25	1030	16x26	1260
680	68	10x15	635	10x17	705	13x20	920	13x25	1070	16x26	1300	16x32	1520
820	82	10x15	700	10x20	830	13x20	1010	13x25	1175	16x26	1430	16x36	1765
101	100	10x17	820	13x20	1065	13x25	1230	16x26	1480	16x36	1820	18x36	2080