

# Aluminum Electrolytic Capacitors



Radial High Performance 85°C

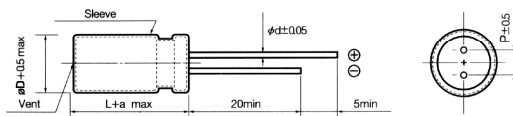
## RDHP Series

- The usage is same as RDLL series
- It provides higher performance and reliability than RDLL series in load life as its DF is lower

### SPECIFICATION

ITEM	SPECIFICATION						
Capacitance Tolerance (120Hz 20°C)	±20%(M)						
Rated Working Voltage	6.3WV~50WV						
Operation Temperature Range	-40 ~ +85°C						
Surge Voltage (V) (20°C)	WV	6.3	10	16	25	35	50
	SV	8	13	20	32	44	63
Leakage Current (20°C)	I ≤ 0.002 CV or 0.4 Whichever is greater						
	After rated voltage applied for 3 minutes Where I : Leakage Current (μA) C : Capacitance (μF) V : Rated Voltage (V)						
Dissipation Factor (tan δ) (120Hz 20°C)	WV	6.3	10	16	25	35	50
	DF	0.20	0.16	0.14	0.12	0.10	0.08
Low Temperature Characteristics	Impedance ratio at 120Hz						
	Comparison Z/WV	6.3	10	16	25	35	50
	-25°C/20°C	4	3	2	2	2	2
	-40°C/20°C	8	6	4	4	4	3
Load Life	After 1000 hours application of W.V. at 85°C, the capacitor shall meet the following limits.						
	Capacitance Change			≤±15% of Initial Value			
	Dissipation Factor			≤150% 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)



	5	6.3	8	10
øD	5	6.3	8	10
P	2.0	2.5	3.5	5.0
ød	0.5	0.5	0.6	0.6
a	1.0	1.0	1.0	1.0

### RIPPLE CURRENT COEFFICIENTS

#### Frequency Multipliers

WV	50	120	1K	10K ~
6.3 ~ 10	0.80	1.00	1.10	1.20
16 ~ 25	0.80	1.00	1.50	1.70
35 ~ 50	0.80	1.00	1.60	1.90

#### Temperature Multipliers

Temp.(°C)	~ 75	85
Coefficient	1.35	1.00

### CASE SIZE & MAX RIPPLE CURRENT

CASE SIZE (ØDxL (mm))      MAX RIPPLE CURRENT (mA/85°C, 120Hz)

CAP Code	WV μF	6.3		10		16		25		35		50	
		ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA
0R1	0.10											5x11	4.6
R22	0.22											5x11	6.9
R33	0.33											5x11	8.5
R47	0.47											5x11	10
010	1.0											5x11	14
2R2	2.2											5x11	22
3R3	3.3											5x11	27
4R7	4.7											5x11	32
100	10					5x11	35	5x11	38	6.3x11	47	6.3x11	53
220	22			5x11	48	5x11	52	6.3x11	64	8x11	80	8x11	90
330	33	5x11	53	5x11	60	5x11	72	8x11	90	8x11	98	10x15	130
470	47	5x11	64	6.3x11	81	5x11	86	8x11	105	10x15	140	10x17	170
101	100	6.3x11	105	8x11	135	6.3x11	145	10x15	185	10x20	235		
221	220	8x11	180	10x15	235	10x17	275	10x20	340				
331	330	10x15	260	10x17	320	10x20	360						
471	470	10x17	340	10x20	400								