

# Aluminum Electrolytic Capacitors

Radial Low Profile 85°C

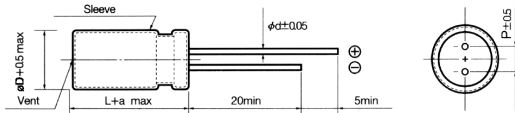
## RDS Series

- Most applications are the same as RD
- RDS provides shorter profile than RD

### SPECIFICATION

ITEM	SPECIFICATION												
Capacitance Tolerance (120Hz 20°C)	±20%(M)												
Rated Working Voltage	6.3WV~250WV												
Operation Temperature Range	-40 ~ +85°C												
Surge Voltage (V) (20°C)	WV	6.3	10	16	25	35	50	63	100	160	200	250	
	SV	8	13	20	32	44	63	79	125	200	250	300	
Leakage Current (20°C)	I ≤ 0.02CV +3												
	After rated voltage applied for 3 minutes												
Dissipation Factor (tan δ) (120Hz 20°C)	WV	6.3	10	16	25	35	50	63	100	160	200	250	
	DF	0.24	0.20	0.16	0.14	0.12	0.10	0.10	0.10	0.15	0.15	0.15	
Low Temperature Characteristics	Add 2% per 1000μF for more than 1000μF												
	Impedance ratio at 120Hz												
	Comparison Z/WV	6.3	10	16	25	35	50	63	100	160	200	250	
	-25°C/20°C	5	4	3	2	2	2	2	2	4	4	4	
-40°C/20°C	12	10	8	5	4	3	3	3	12	12	12		
Load Life	After 1000 hours application of W.V. at 85°C, the capacitor shall meet the following limits.												
	Capacitance Change						≤±20% 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	10	13	16	18
P	5.0	5.0	7.5	7.5
ød	0.6	0.6	0.8	0.8
a	1.0	2.0	2.0	2.0

### CASE SIZE & MAX RIPPLE CURRENT

CAP Code	WV μF	6.3		10		16		25		35		50		63		100		160		200		250		
		ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	
100	10																							
220	22																	10x12.5	55	10x12.5	60	10x12.5	65	
330	33																10x12.5	120	13x13	120	13x16	140	16x16	150
470	47																13x13	175	13x16	170	16x16	180	18x16	190
101	100											10x12.5	200	10x12.5	215	13x16	255	16x20	285	18x20	305	18x26	310	
221	220									10x12.5	290	13x13	360	13x16	385	18x16	505							
331	330					10x12.5	305	10x12.5	330	13x13	430	13x16	560	16x16	580	18x26	695							
471	470			10x12.5	330	10x12.5	365	13x13	475	13x13	510	16x16	670	16x16	690									
102	1000	10x12.5	440	10x12.5	481	13x13	650	16x20	850	16x16	920	18x20	1185	18x26	1210									
222	2200	13x13	755	13x16	935	13x16	923	16x20	1321	18x20	1515	18x26	1736											
332	3300	16x16	1060	16x16	1140	16x23	1320	18x26	1555															
472	4700	16x16	1225	18x20	1400	18x26	1695																	
682	6800	16x20	1520	18x20	1730																			
103	10000	18x26	1870	18x26	1965																			

### RIPPLE CURRENT COEFFICIENTS

Frequency Multipliers

WV	Freq.(Hz) Cap.(μF)	Frequency Multipliers			
		50	120	1K	10K ~
6.3 ~ 100	33 ~ 47	0.75	1.00	1.57	2.00
	100 ~ 470	0.80	1.00	1.34	1.50
	1000 ~ 10000	0.85	1.00	1.13	1.15
160 ~ 250	10 ~ 100	0.80	1.00	1.40	1.60

Temperature Multipliers

Temp.(°C)	~ 75	85
Coefficient	1.27	1.00

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