



Aluminum Electrolytic Capacitors

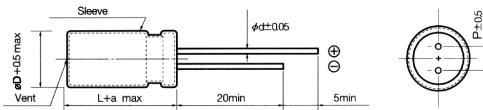
Radial Low Leakage 85°C and 105°C

RDLL, UTWLL Series

- Used in electronic circuits whichever lower leakage current is requested such as Hi-Fi pre-amp and TV oscillation.
- The product is applied for 85°C (RDLL Series) or 105°C (UTWLL Series).

SPECIFICATION											
ITEM	SPECIFICATION										
Capacitance Tolerance (120Hz 20°C)	±20%(M)										
Rated Working Voltage	6.3WV~100WV										
Operation Temperature Range	-40 ~ +85°C(RDLL Series)					-40 ~ +105°C(UTWLL Series)					
Surge Voltage (V) (20°C)	WV	6.3	10	16	25	35	50	63	80	100	
	SV	8	13	20	32	44	63	79	100	125	
Leakage Current (20°C)	I ≤ 0.002CV or 0.4 Whichever is greater										
	After rated voltage applied for 3 minutes										
Dissipation Factor (tan δ) (120Hz 20°C)	Where	I : Leakage Current (μA)					C : Capacitance (μF)			V : Rated Voltage (V)	
	WV	6.3	10	16	25	35	50	63	80	100	
DF	DF	0.24	0.20	0.16	0.14	0.12	0.10	0.10	0.08	0.07	
	Add 0.02 per 1000 μF for more than 1000μF										
Low Temperature Characteristics	Impedance ratio at 120Hz										
	Comparison Z/WV	6.3	10	16	25	35	50	63	80	100	
	-25°C/20°C	4	3	2	2	2	2	2	1.5	1.5	
	-40°C/20°C	8	6	4	4	3	3	3	2	2	
Load Life	After 1000 hours application of W.V. at 85°C(RDLL Series) or 105°C(UTWLL) 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 application of W.V. at 85°C(RDLL Series) or 105°C(UTWLL) 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	13	16	18
øD	2.0	2.5	3.5	5.0	5.0	7.5	7.5
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					
WV	Freq.(Hz)	50	120	1K	10K~
6.3 ~ 10		0.80	1.00	1.00	1.20
16 ~ 25		0.80	1.00	1.20	1.30
35 ~ 50		0.80	1.00	1.50	1.70
63 ~ 100		0.80	1.00	1.60	1.90
Temperature Multipliers					
Temp.(°C)		~75	85	105	
Coefficient		1.35	1.00	0.85	

CASE SIZE & MAX RIPPLE CURRENT

CAP Code	WV	CASE SIZE ØDxL (mm)																MAX RIPPLE CURRENT (mA/120Hz), (85°C/RDLL Series, 105°C/UTWLL Series)															
		6.3		10		16		25		35		50		63		80		100															
μF		ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA														
0R1	0.10											5x11	5																				
R22	0.22											5x11	8																				
R33	0.33											5x11	10																				
R47	0.47											5x11	12						5x11	14													
010	1.0											5x11	17						5x11	20													
2R2	2.2											5x11	25						5x11	31													
3R3	3.3											5x11	31						5x11	37													
4R7	4.7							5x11	32	5x11	34	5x11	37	5x11	37				5x11	45													
100	10					5x11	42	5x11	46	5x11	50	5x11	55	5x11	55	6.3x11	70	6.3x11	75														
220	22			5x11	58	5x11	64	5x11	69	5x11	75	5x11	82	6.3x11	92	8x11	115	8x11	125														
330	33	5x11	65	5x11	70	5x11	79	5x11	84	5x11	90	6.3x11	110	6.3x11	110	8x11	145	10x12.5	180														
470	47	5x11	77	5x11	85	5x11	95	5x11	100	6.3x11	120	6.3x11	135	8x11	155	10x12.5	205	10x17	255														
101	100	5x11	110	5x11	120	6.3x11	155	6.3x11	165	8x11	205	8x11	225	10x12.5	265	10x17	345	13x20	460														
221	220	6.3x11	190	6.3x11	205	8x11	265	8x11	285	10x12.5	360	10x17	460	10x20	495	13x20	640	16x26	865														
331	330	6.3x11	230	8x11	290	8x11	325	10x12.5	410	10x17	515	10x20	605	13x20	700	13x25	870	16x26	1066														
471	470	8x11	315	8x11	345	10x12.5	460	10x17	570	10x20	660	13x20	840	13x25	925	16x26	1185	16x32	1385														
102	1000	10x12.5	545	10x17	695	10x17	776	13x20	1035	13x25	1230	16x26	1545	16x32	1690	18x36	2130																
222	2200	13x20	1085	13x20	1175	13x25	1415	16x26	1810	16x32	1980	18x36	2385																				
332	3300	13x20	1285	13x25	1520	16x26	1890	16x32	2170	18x36	2575																						
472	4700	16x26	1870	16x26	2000	16x32	2370	18x36	2780	18x40	3050																						
682	6800	16x26	2120	16x32	2465	18x36	2965	18x40	3230																								
103	10000	16x32	2600	18x36	3085	18x40	3420																										
153	15000	18x36	3230																														