Aluminum Electrolytic Capacitors

Radial 85°C Standard Downsized

RD/RDL

Features:

- Low profile Standard low voltage general purpose use.

Specifications

Items	Performance	
	RD	RDL
Life	At 85°C 1000 Hrs.	At 85°C 2000 Hrs.
Operating Temperature Range	-40°C~+85°C	
Capacitance Tolerance	±20% (at 20°C, 120Hz)	
Leakage Current	1=0.01 CV or 3 (μA) whichever is greater. (At 20°C, after 2 minutes) Where C=rated capacitance in μF. V=rated DC working voltage in V.	

Dissipation Factor (Tan δ, At 20°C, 120Hz)

Rated voltage (V)	6.3	10	16	25	35	50	63	100
Tan δ	0.28	0.24	0.20	0.16	0.14	0.12	0.09	0.08

When the capacitance exceeds, 0.02μF shall be added every 1,000μF increase.

Temperature Characteristics

Rated Voltage			6.3	10	16	25	35	50	63	100
Impedance Ratio	Z-25°C/ Z+20°C	øD<16	6	4	3	3	2	2	2	2
		øD≥16	8	6	4	4	3	3	3	3
	Z-40°C/ Z+20°C	øD<16	10	8	6	6	4	3	3	3
		øD≥16	18	16	12	10	8	8	6	6

Life Test (after application of the rated voltage at 85°C)

Test Time		1000 Hrs.		2000 Hrs.	
Test Item		Load Life	Shelf Life	Load Life	Shelf Life
Leakage Current		Within specified value			
Dissipation Factor		Less than 200% of specified value			
Capacitance Change	6.3~25V	±20%		±25%	
	35~100V	±20%		±20%	

Ripple Current & Frequently Multipliers

Freq.(Hz) / Cap.(μF)	60(50)	120	500	1K	10K/up
under 100	0.70	1.0	1.30	1.40	1.50
100 to 1000	0.75	1.0	1.20	1.30	1.35
1000 and up	0.80	1.0	1.10	1.12	1.15

Ripple Current & Temperature Multipliers

Temperature (°C)	under 50	70	85
Multiplier	1.78	1.40	1.0

Standards: Satisfies Characteristic W of JIS-C-5141

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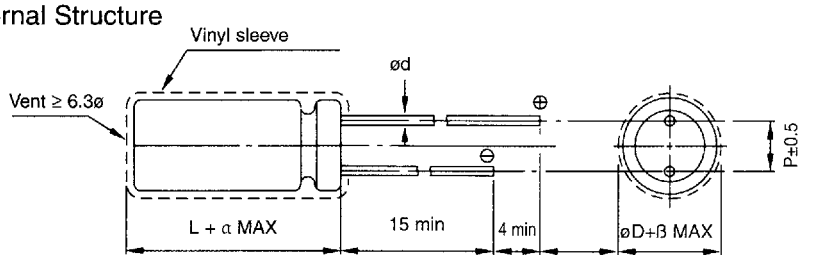
Diagram of Dimensions

Internal Structure



Unit: mm

Lead Spacing And Diameter

øD	5	6.3	8	10	13	16	18	22
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	7.5
ød	0.5			0.6		0.8		1.0
α	1.0			1.0 for L≤16,2.0 for L>20				
ß	0.5					1.0		

Dimensions and Permissible Ripple Current

Dimension: øD x L(mm) Ripple current: mA/RMS at 120Hz 85°C

W.V. / Code / µF		6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)		100 (2A)	
		øDxL	mA	øDxL	mA	øDxL	mA	øDxL	mA	øDxL	mA	øDxL	mA	øDxL	mA	øDxL	mA
0.1	0R1											5x11	1.5	5x11	3.0	5x11	3.0
0.22	R22											5x11	3.5	5x11	4.5	5x11	4.5
0.33	R33											5x11	5.0	5x11	7.5	5x11	7.5
0.47	R47											5x11	6.0	5x11	9.0	5x11	9.0
1	010											5x11	10	5x11	15	5x11	15
2.2	2R2											5x11	20	5x11	30	5x11	30
3.3	3R3											5x11	30	5x11	38	5x11	38
4.7	4R7											5x11	41	5x11	43	5x11	46
10	100									5x11	54	5x11	60	5x11	63	6.3x11	71
22	220					5x11	70	5x11	75	5x11	81	5x11	95	6.3x11	100	6.3x11	123
33	330					5x11	86	5x11	92	5x11	106	6.3x11	116	6.3x11	143	8x11.5	187
47	470			5x11	92	5x11	102	5x11	110	5x11	126	6.3x11	162	6.3x11	170	10x12.5	224
100	101	5x11	125	5x11	134	5x11	160	6.3x11	171	6.3x11	215	8x115	236	10x12.5	297	10x20	342
220	221	6.3x11	198	6.3x11	212	6.3x11	277	8x11.5	319	8x11.5	381	10x16	434	10x16	479	13x26	554
330	331	6.3x11	383	6.3x11	303	8x11.5	339	10x12.5	449	10x12.5	508	10x16	607	10x20	669	13x26	787
470	471	8x11.5	337	8x11.5	362	10x12.5	482	10x12.5	536	10x16	606	10x20	724	13x21	829	16x26	942
1000	102	8x11.5	508	10x12.5	630	10x16	731	10x20	866	13x21	948	13x26	1112	16x26	1162	18x41	1345
2200	222	10x20	919	10x20	1041	13x21	1115	13x26	1334	16x26	1441	16x36	1689				
3300	332	10x20	1139	13x21	1278	13x26	1444	16x26	1600	16x36	1692	18x36	2006				
4700	472	13x20	1437	13x26	1541	16x26	1639	16x32	1870	18x36	2185	25x41	2231				
10000	103	16x26	1994	16x36	2337	18x36	2478										
22000	223	18x41	3066														

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