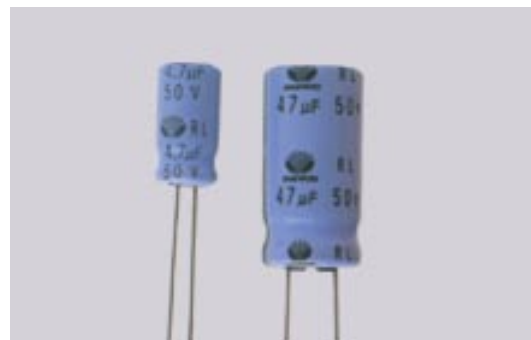


RL SERIES

ALUMINUM ELECTROLYTIC CAPACITORS Low Leakage, Radial Leads

n Features

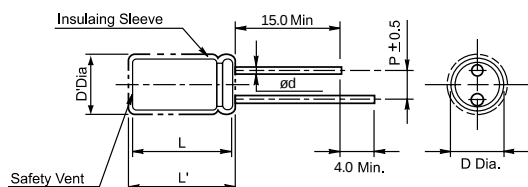
- Low leakage current, Radial
- Excellent shelf performance
- Close tolerance and low cost
- Load life of 2000hours at 85°C



n Specifications

Item	Performance Characteristics							
Operating temperature range	-40°C~ +85°C							
Rated working voltage range	6.3V ~ 100V							
Nominal capacitance range	0.1μF ~ 2200μF, ±20% or ±10% (at 20°C, 120Hz)							
D.C Leakage current(at 20°C)	The following specifications shall be satisfied when the rated voltage is applied for the required time. 1 ≤ 0.002CV or 0.4μA (2 min), whichever is greater Where l= Leakage current (μA) C = Nominal capacitance (μF) V = Rated voltage (V)							
Tan δ(max., at 20°C., 120Hz)	W.V (V)	6.3	10	16	25	35	50~80	100
	Tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.08
	δ							
	When capacitance is over 1000μF, Tan δ shall be added 0.02 to the listed value with increase of every each 1000μF.							
Characteristics at low temperature(max.) (impedance ratio at 120Hz)	Z-25°C/Z20°C	4	3	2	2	2	2	2
	Z-40°C/Z20°C	8	6	4	4	4	4	4
Load life	After applying rated working voltage for 2000hours at +85°C and then being stabilized at +20°C, capacitors shall meet following limits.							
	Capacitance change			Within ± 20% of initial measured value				
	Tan			≤ 200% of initial specified value				
Shelf life	Leakage current ≤ Initial specified value							
	After storage for 1000hours at +85°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet following limits.							
	Capacitance change			Within ± 20% of initial measured value				
	Tan			≤ 150% of initial specified value				

n Case sizes and Dimensions



• Standard lead style

ØD	5.0	6.3	8.0	10.0	13.0	16.0
P	2.0	2.5	3.5	5.0	7.5	
Ød	0.5		0.6		0.8	

D' = [D + 0.5] Max.

L' = [L + 1.0] Max. at D ≤ 8.0

L' = [L + 1.5] Max. at D ≥ 10.0

RL SERIES

Dimensions & Maximum permissible ripple current [mA(rms) at 85°C, 120Hz]

W.V Cap(μF)	6.3		10		16		25		35		50		63		80		100		ø D x L (mm)
	SIZE	I _R	SIZE	I _R	SIZE	I _R	SIZE	I _R	SIZE	I _R	SIZE	I _R	SIZE	I _R	SIZE	I _R	SIZE	I _R	
0.1											5x11	4	5x11	4	5x11	4	5x11	4	
0.22											5x11	6	5x11	6	5x11	6	5x11	6	
0.33											5x11	7	5x11	7	5x11	7	5x11	7	
0.47											5x11	9	5x11	9	5x11	9	5x11	9	
0.68											5x11	12	5x11	12	5x11	12	5x11	14	
1.0											5x11	15	5x11	15	5x11	17	5x11	17	
2.2											5x11	21	5x11	21	5x11	27	6.3x	28	
3.3											5x11	30	6.3x	31	6.3x	44	11	45	
4.7							5x11	35	5x11	35	6.3x	35	11	50	11	50	8x11.5	55	
6.8							5x11	40	6.3x	50	11	50	6.3x	65	6.3x	70	8x11.5	75	
10					5x11	60	6.3x	61	11	61	8x11.5	61	11	74	11	10	10x	10	
22			5x11	75	6.3x	80	11	105	6.3x	110	8x11.5	120	8x11.5	15	8x11.5	0	12.5	0	
33			6.3x	100	11	115	8x11.5	140	11	150	10x	155	8x11.5	0	10x	17	10x	17	
47			11	125	6.3x	145	8x11.5	175	8x11.5	190	12.5	210	10x	16	12.5	0	16	5	
68			6.3x	135	11	160	10x	200	10x	225	10x	250	16	0	10x	21	10x	22	
100			11	200	8x11.5	250	12.5	290	12.5	330	16	340	10x	22	16	0	20	0	
220	10x	2.6	6.3x	335	8x1.5	400	10x	480	10x	545	10x	550	16	0	10x	32	13x	32	
330	12.5	0	11	430	10x	480	12.5	580	12.5	630	16	680	10x	28	20	0	20	0	
470	10x	3.4	8x	575	12.5	725	10x	780	10x	850	10x	850	16	0	10x	34	13x	36	
680	16	0	11.5	700	10x	800	16	850	16	900	20	900	10x	36	20	0	25	0	
1000	10x	4.4	10x	1000	16	1050	13x	110	10x		13x		20	0	13x	47	16x	50	
2200	20	0	16	1100	10x		20	0	20		20		13x	60	25		25	5	

PERFORMANCE CURVES

