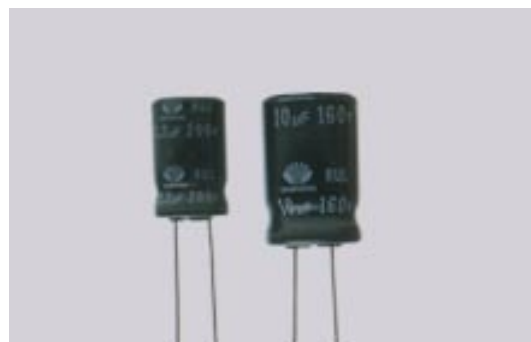


RUL SERIES

ALUMINUM ELECTROLYTIC CAPACITORS 105°C Long Life(5000H), Radial Leads

Features

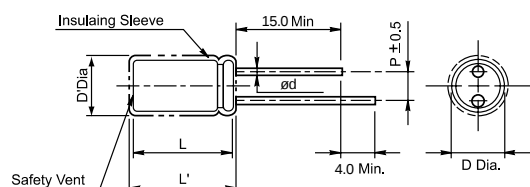
- Long life and excellent stability, Radial (equivalent to 13years at 60°C)
- No derating at high temperature
- Industrial and military applications
- load life of 5000 hours at 105°C



Specifications

Item	Performance Characteristics										
Operating temperature range	-40℃ ~ +105℃										
Rated working voltage range	10V ~ 250V										
Nominal capacitance range	1μF ~ 2200μF, ±20%(at 20℃, 120Hz)										
D.C Leakage current(at 20℃)	The following specifications shall be satisfied when the rated voltage is applied for the required time. I ≤ 0.01CV +2μA(10~100V) (3 min) I ≤ 0.04CV +100μA(160~250V) (3 min) Where I=Leakage current (μA) C=Nominal capacitance (μF) V=Rated voltage (V)										
Tanδ(max., at 20℃, 120Hz)	W.V(V)	10	16	25	35	50	63	100	160	200	250
	δ										
	When capacitance is over 1000μF, Tanδ shall be added 0.02 to the listed value with increase of every each 1000μF										
Characteristics at low temperature(max.) (impedance ratio at 120Hz)	W.V(V)		10	16	25	35~100			160~250		
	Z-25℃/Z20℃		3	2	2	2			2		
	Z-40℃/Z20℃		6	5	4	3			3		
Load life	After applying rated working voltage for 5000 hours at +105℃ and then being stabilized at +20℃, capacitors shall meet following limits.										
	Capacitance change				Within ±20% of initial measured value						
	Tanδ				≤ 200% of initial specified value						
	Leakage current				≤ Initial specified value						
Shelf life	After storage for 1000 hours at +105℃ with no voltage applied and then being stabilized at +20℃, capacitors shall meet following limits.										
	Capacitance change				Within ±20% of initial measured value						
	Tanδ				≤ 200% of initial specified value						
	Leakage current				≤ 200% of initial specified value						

Case sizes and Dimensions



Standard lead style

øD	10.0	13.0	16.0	18.0
p	5.0	5.0	5.0	5.0
ød	5.0	5.0	7.5	7.5

D' = [D + 0.5] Max.

L' = [L + 1.5] Max. at D ≥ 10.0

Ripple current coefficient

Frequency

Cap(μF)	50	120	400	1K	10K	50-100K
Cap ≤ 10	0.8	1	1.30	1.45	1.65	1.70
10 < Cap ≤ 100	0.8	1	1.23	1.36	1.48	1.53
100 < Cap ≤ 1000	0.8	1	1.16	1.25	1.35	1.38
1000 < Cap	0.8	1	1.11	1.17	1.25	1.28

Temperature

Temperature Factor	≤ 70°C	85°C	105°C
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RUL SERIES

Dimensions & Maximum permissible ripple current [mA(rms) at 105°C, 120Hz]

W.V Cap(μF)		10		16		25		35		50		63		100		160		200		250	
		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	SIZE	I _R
1.0																		10x16	26	10x16	32
1.5																		10x16	34	10x16	42
2.2																		10x16	46	10x16	56
3.3																		10x16	61	10x20	77
4.7																		10x20	79	13x20	10
6.8																		13x20	10	13x25	0
10														10x20	14	13x20	12	13x25	5	16x25	13
15														10x20	0	13x25	5	16x25	13	16x31.5	0
22														13x20	20	16x25	17	16x25	5	16x35.5	17
33										10x20	19	10x20	15	13x25	5		0	16x35.5	18	18x35.5	5
47										10x20	0	10x20	5	16x25	29	16x31.5	22	18x35.5	5	18x40	23
68										10x20	24	13x20	20		5		5		24		5
100				10x16	185	10x20	255	10x20	29	13x20	5	13x20	0		43	16x35.5	29		0		31
150				10x20	295	13x20	345	13x20	0	13x25	32	13x25	26		0		5		31		0
220	10x20	330		13x20	395	13x20	450	13x25	39	16x25	0	16x25	5		61		39		5		42
330	13x20	435		13x25	530	13x25	600	16x25	0	16x31.5	41	16x35.5	35		0		0		41		0
470	13x20	570		16x25	690	16x25	770	16x25	51		0										
680	13x25	750		16x25	920	16x31.5	100		5												
1000	16x25	970			123	16x35.5	0														
2200	16x35.5	172			0		132														