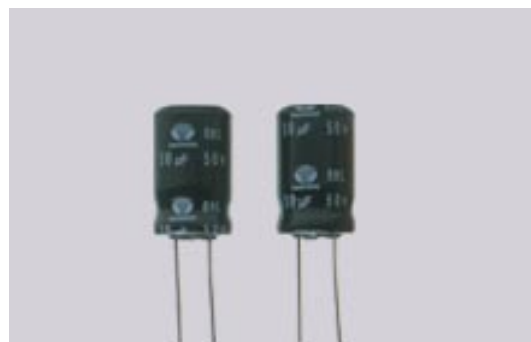


RHL SERIES

ALUMINUM ELECTROLYTIC CAPACITORS 125 °C, Long Life(5000H), Radial Leads

Features

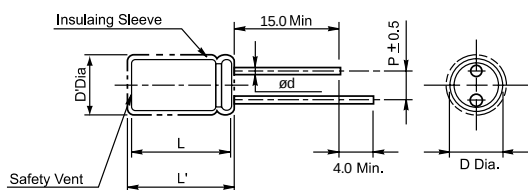
- High temperature, long life (-40°C ~ +125°C)
Radial (Equivalent to 80000 hours life at 85°C)
- Reverse voltage:5V
- Very low leakage current
- low dissipation factor
- load life of 5000 hours at 125°C



Specifications

Item	Performance Characteristics						
Operating temperature range	-40℃ ~ +125℃						
Rated working voltage range	10V ~ 63V						
Nominal capacitance range	0.47μF ~ 1000μF, +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 ≤ 0.002CV or 2μA(5 min), whichever is greater Where I=Leakage current (μA) C=Nominal capacitance (μF) V=Rated voltage (V)						
Tan δ (max., at 20℃, 120Hz)	W.V (V)	10	16	25	35	50	63
	δ						
Characteristics at low temperature(max.) (impedance ratio at 120Hz)	W.V (V)	10	16	25	35	50~63	
	Z-25℃/Z20℃	2	2	2	2	2	
	Z-40℃/Z20℃	8	6		4	4	
Load life	After applying rated working voltage for 5000 hours at +125℃ 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 +125℃ with no voltage applied and then being stabilized at +20±, capacitors shall meet following limits.						
	Capacitance change			Within ±15% of initial measured value			
	Tanδ			≤ 150% of initial specified value			
	Leakage current			≤ 500% of initial specified value			

Case sizes and Dimensions



Standard lead style

øD	10.0	13.0	16.0	18.0
p	5.0		7.5	
ød				

D' = [D+0.5] Max.

L' = [L+1.5] Max. at D ≥ 10.0

Ripple current coefficient

Frequency

Cap(μF) \ Freq(Hz)	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

Temperature

Temperature	≤ 85 °C	105 °C	125 °C
Factor	2.0	1.4	1.0

RHL SERIES

Dimensions & Maximum permissible ripple current [mA(rms) at 125°C, 120Hz]

Cap(μF)	W.V	øD × L (mm)											
		10		16		25		35		50		63	
		SIZE	I _R	SIZE	I _R	SIZE	I _R	SIZE	I _R	SIZE	I _R	SIZE	I _R
0.47										10 × 16	11	10 × 16	11
1.0										10 × 16	17	10 × 16	17
2.2										10 × 16	25	10 × 16	25
3.3										10 × 16	31	10 × 16	31
4.7										10 × 16	37	10 × 16	37
10										10 × 16	59	10 × 16	59
22								10 × 16	99	10 × 16	102	10 × 16	102
33						10 × 16	101	10 × 16	130	10 × 20	172	10 × 20	172
47				10 × 16	136	10 × 16	153	10 × 20	187	13 × 20	240	13 × 20	240
100		10 × 20	176	13 × 20	240	13 × 20	300	13 × 25	330	13 × 25	351	16 × 25	351
220		13 × 25	320	13 × 25	473	16 × 25	513	16 × 25	590	16 × 31.5	633	16 × 31.5	633
330		16 × 25	488	16 × 25	576	16 × 31.5	720	16 × 31.5	776	31.5		35.5	
470		16 × 25	576	16 × 31.5	790	31.5	924	35.5	104				
1000		18 × 40	103	31.5		18 × 40		18 × 40	0				

PERFORMANCE CURVES

