

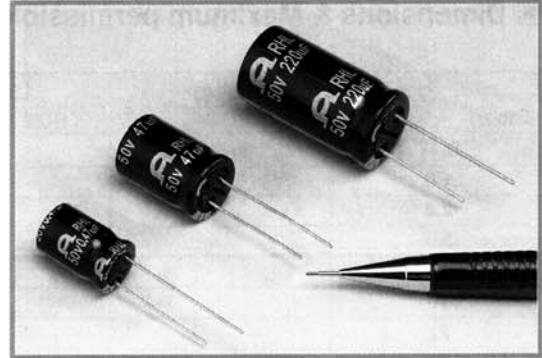


RHL SERIES

125°C High Performance, Radial Leads

Features

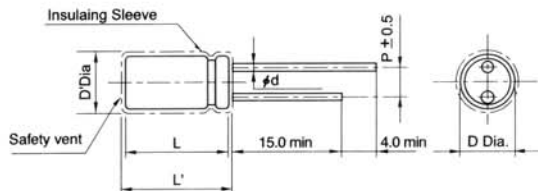
- High temperature, long life (-40°C ~ +125°C)
Radial (Equivalent to 80000 hours life at 85°C)
- Reverse voltage:5V
- Very low leakage current
- Low dissipation factor
- Load life of 5000 hours at 125°C



Specifications

Item	Performance Characteristics						
Operating temperature range	-40°C ~ +125°C						
Rated working voltage range	10V ~ 63V						
Nominal capacitance range	0.47 μF ~ 1000 μF, ±20%(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. $I \leq 0.002CV$ or $2\mu A$ (5 min), whichever is greater Where I=Leakage current(μA) C=Nominal capacitance(μF) V=Rated voltage(V)						
Tan δ (max., at 20°C, 120Hz)	W.V(V)	10	16	25	35	50	63
	Tan δ	0.15	0.12	0.10	0.10	0.08	0.08
Characteristics at low temperature(max.) (impedance ratio at 120Hz)	W.V(V)	10	16	25	35	50~63	
	Z-25°C/Z20°C	2	2	2	2	2	
	Z-40°C/Z20°C	8	6	5	4	4	
Load life	After applying rated working voltage for 5000 hours at +125°C and then being stabilized at +20°C, capacitors shall meet following limits.						
	Capacitance change	Within ±20% of the initial measured value					
	Tan δ	≤ 200% of the initial specified value					
	Leakage current	≤ The initial specified value					
Shelf life	After storage for 1000 hours at +125°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet following limits.						
	Capacitance change	Within ±15% of the initial measured value					
	Tan δ	≤ 150% of the initial specified value					
	Leakage current	≤ 500% of the initial specified value					

Dimensions



Standard lead style

φD	10.0	12.5	16.0	18.0
p	5.0		7.5	
φd	0.6		0.8	

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	1.0	1.30	1.45	1.65	1.70
10 < Cap ≤ 100	0.8	1.0	1.23	1.36	1.48	1.53
100 < Cap ≤ 1000	0.8	1.0	1.16	1.25	1.35	1.38

Temperature

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



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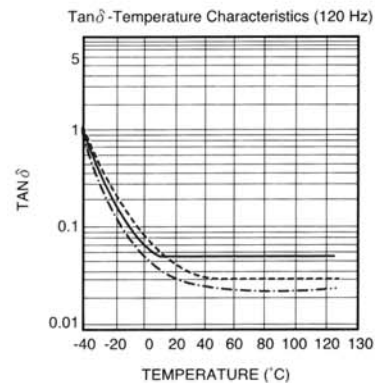
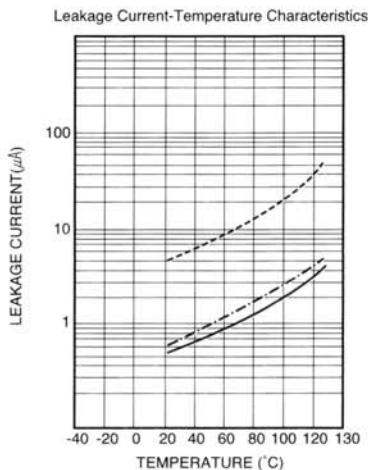
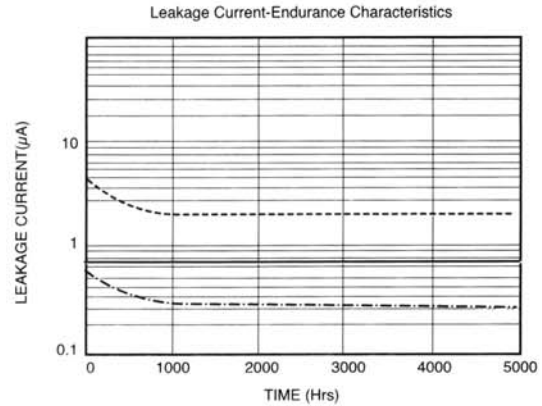
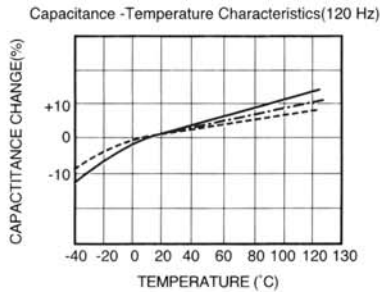
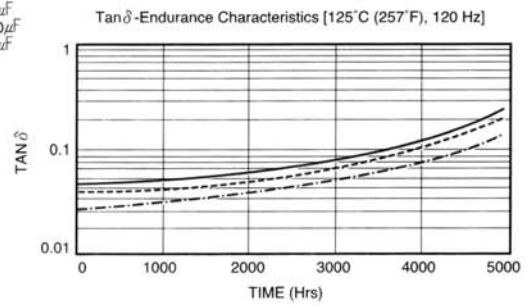
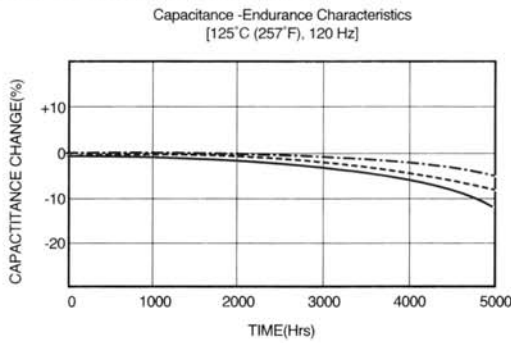
Dimensions & Maximum permissible ripple current

Cap(μF)	W.V(V)	10(1A)		16(1C)		25(1E)		35(1V)		50(1H)		63(1J)	
		SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r
0.47										10 x 16	11	10 x 16	11
1.0										10 x 16	17	10 x 16	17
2.2										10 x 16	25	10 x 16	25
3.3										10 x 16	31	10 x 16	31
4.7										10 x 16	37	10 x 16	37
10										10 x 16	59	10 x 16	59
22								10 x 16	99	10 x 16	102	10 x 16	102
33						10 x 16	101	10 x 16	130	10 x 20	172	10 x 20	172
47				10 x 16	136	10 x 16	153	10 x 20	187	12.5 x 20	240	12.5 x 20	240
100		10 x 20	176	12.5 x 20	240	12.5 x 20	300	12.5 x 25	330	12.5 x 25	351	16 x 25	351
220		12.5 x 25	320	12.5 x 25	473	16 x 25	513	16 x 25	590	16 x 31.5	633	16 x 35.5	633
330		16 x 25	488	16 x 25	576	16 x 31.5	720	16 x 35.5	776				
470		16 x 25	576	16 x 31.5	790	18 x 35.5	924	18 x 40	1040				
1000		18 x 40	1034										

φ D x L(mm)

PERFORMANCE CURVES

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



Professional