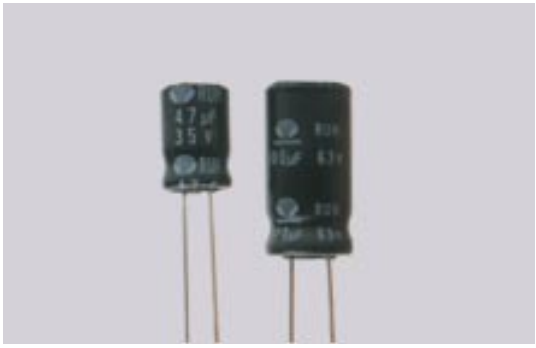
R U H SERIES

ALUMINUM ELECTROLYTIC CAPACITORS
105˚C High Performance, Radial Leads

n Features

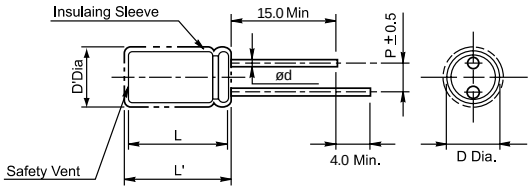
- 105˚C High performance, Radial
- General and industrial application
- Ideal for automatic insertion
- load life of 3000 hours at 105˚C



n Specifications

Item	Performance Characteristics						
Operating temperature range	-40˚C ~ +105˚C						
Rated working voltage range	6.3V ~ 250V						
Nominal capacitance range	4.7μF ~ 10000μF, ±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≤ 0.01CV +3μA(2 min) Where =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	50~100	160~250
	δ						
	When capacitance is over 1000μF, δTan 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)	6.3	10	16	25	35	50~100	160~250
	Z-25˚C/Z20˚C	4	3	2	2	2	2	2
	Z-40˚C/Z20˚C			4	4	4	4	3
Load life	After applying rated working voltage for 3000 hours at +105˚C and then being stabilized at +20˚C, 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˚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					
	Tanδ	≤ 200% of initial specified value					
	Leakage current	≤ 200% of initial specified value					

n Case sizes and Dimensions



• Standard lead style

øD	8.0	10.0	13.0	16.0	18.0
p	3.5	5.0		7.5	
ød					

D'= [D+0.5]Max. L'= [L+1.0]Max. at D ≤ 8.0

L' = [L+1.5]Max. at D ≥

n 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
1000 < Cap	0.8	1	1.11	1.17	1.25	1.28

• Temperature

Temperature	≤ 70˚C	85˚C	105˚C
Factor			

RUH SERIES

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

øD x L (mm)

W.V / Cap(μF)	6.3		10		16		25		35		50	
	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R
33											8x11.5	150
47									8x11.5	170	8x11.5	180
100					8x11.5	180	8x11.5	200	10x12.5	240	10x16	300
220		180	8x11.5	200	10x12.5	270	10x16	350	10x20	420	13x20	460
330	8x11.5	250	10x12.5	250	10x16	340	10x20	440	13x20	520	13x20	580
470	10x12.5	320	10x16	340	10x20	440	13x20	520	13x25	620	16x25	710
1000		520	13x20	560	13x25	780	16x25	800	16x25	870	16x31.5	102
2200	10x12.5	800	16x25	900	16x25	1150	16x35.5	1230	18x35.5	136		0
3300	10x20	103	16x31.5	1190	16x35.5	1590	18x40	1630		0		
4700	13x25	0	16x35.5	1420	18x35.5	1890						
6800	16x25	127	18x40	1850								
10000		0										

W.V / Cap(μF)	63		80		100		160		200		250	
	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R
4.7											10x16	50
10					8x11.5	100	10x20	70	10x20	80	13x20	85
22		120			10x12.5	170	13x20	120	13x20	140	13x25	140
33	8x11.5	150	10x16	180	10x16	210	13x25	160	13x25	170	16x25	180
47		190	10x16	240	10x20	270	16x25	200	16x25	210	16x31.5	230
100	8x11.5	340	13x20	350	13x20	420	16x35.5	300	16x35.5	340	18x40	360
220		500	13x25	550	16x25	620						
330	10x12.5	550	16x31.5	700	16x31.5	780						
470	10x20	730	16x35.5	880	16x35.5	100						
1000	13x20	1220				0						