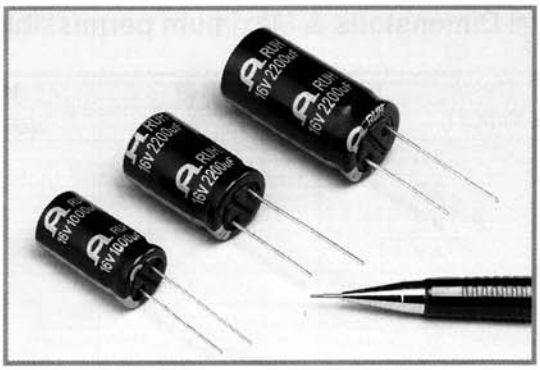
RUH SERIES

105°C High Performance, Radial Leads

▣ Features

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



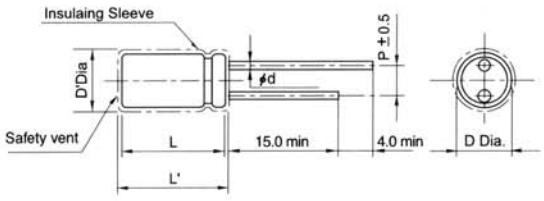
▣ Specifications

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
	Tan δ	0.28	0.24	0.20	0.17	0.15	0.12
	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)	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	8	6	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 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 +105°C with no voltage applied 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	≤ 200% of the initial specified value

▣ Dimensions



• Standard lead style

φD	8.0	10.0	12.5	16.0	18.0
p	3.5	5.0		7.5	
φd	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

▣ 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
1000 < Cap	0.8	1.0	1.11	1.17	1.25	1.28

• Temperature

Temperature	**≤ 70°C**	**85°C**	**105°C**
Factor	1.65	1.40	1.0

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▣ Dimensions & Maximum permissible ripple current

φD x L(mm)

W.V(V) / Cap(μF)	6.3(0J)		10(1A)		16(1C)		25(1E)		35(1V)		50(1H)	
	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R
33											8 x 11.5	150
47									8 x 11.5	170	8 x 11.5	180
100					8 x 11.5	180	8 x 11.5	200	10 x 12.5	240	10 x 16	300
220	8 x 11.5	180	8 x 11.5	200	10 x 12.5	270	10 x 16	350	10 x 20	420	12.5 x 20	460
330	10 x 12.5	250	10 x 12.5	250	10 x 16	340	10 x 20	440	12.5 x 20	520	12.5 x 20	580
470	10 x 12.5	320	10 x 16	340	10 x 20	440	12.5 x 20	520	12.5 x 25	620	16 x 25	710
1000	10 x 20	520	12.5 x 20	560	12.5 x 25	780	16 x 25	800	16 x 25	870	16 x 31.5	1020
2200	12.5 x 25	800	16 x 25	900	16 x 25	1150	16 x 35.5	1230	18 x 35.5	1360		
3300	16 x 25	1030	16 x 31.5	1190	16 x 35.5	1590	18 x 40	1630				
4700	16 x 31.5	1270	16 x 35.5	1420	18 x 35.5	1890						
6800	16 x 35.5	1750	18 x 40	1850								
10000	18 x 40	2040										

W.V(V) / Cap(μF)	63(1J)		80(1K)		100(2A)		160(2C)		200(2D)		250(2E)	
	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R
4.7											10 x 16	50
10					8 x 11.5	100	10 x 20	70	10 x 20	80	12.5 x 20	85
22	8 x 11.5	120			10 x 12.5	170	12.5 x 20	120	12.5 x 20	140	12.5 x 25	140
33	8 x 11.5	150	10 x 16	180	10 x 16	210	12.5 x 25	160	12.5 x 25	170	16 x 25	180
47	10 x 12.5	190	10 x 16	240	10 x 20	270	16 x 25	200	16 x 25	210	16 x 31.5	230
100	10 x 20	340	12.5 x 20	350	12.5 x 20	420	16 x 35.5	300	16 x 35.5	340	18 x 40	360
220	12.5 x 20	500	12.5 x 25	550	16 x 25	620						
330	12.5 x 25	550	16 x 31.5	700	16 x 31.5	780						
470	16 x 25	730	16 x 35.5	880	16 x 35.5	1000						
1000	18 x 35.5	1220										

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

Professional