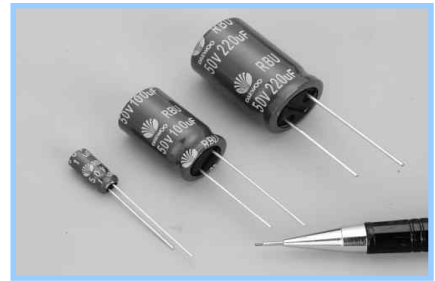


# RBU SERIES

105°C, Bi-Polar, Radial Leads

## ■ Features

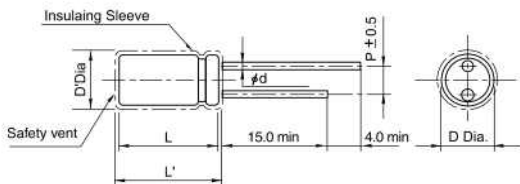
- Bi-Polar, Standard
- Ideal for inconsistent polarity circuits
- For digital household appliances
- Load life of 1,000 hours at 105°C



## ■ Specifications

Item	Performance Characteristics									
Operating temperature range	-40°C ~ +105°C									
Rated working voltage range	6.3V ~ 100V									
Nominal capacitance range	3.3 μF ~ 1,000 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 ≤ 0.03CV or 3μA(5min), 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	6.3	10	16	25	35	50	63	100	
	Tan δ	0.24	0.20	0.17	0.16	0.14	0.13	0.12	0.12	
	When capacitance is over 1,000μF, Tanδ shall be added 0.02 to the listed value with increase of every each 1,000μF.									
Characteristics at low temperature(max.) (impedance ratio at 120Hz)	W.V(V)	6.3	10	16	25	35	50	63	100	
	Z-25°C/+20°C	4	3	2	2	2	2	2	2	
	Z-40°C/+20°C	8	6	4	4	3	3	3	3	
Load life	After applying rated working voltage for 1,000hours at +105°C and then being stabilized at +20°C, during this test, the voltage shall be reversed on the capacitor every 250hrs, capacitors shall meet following limits.									
	Capacitance change	Within ± 25% of the initial measured value								
	Tan δ	≤300% of the initial specified value								
	Leakage current	≤The initial specified value								
Shelf life	After storage for 1,000hours 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%The initial specified value								

## ■ Dimensions



• Standard lead style

Φ D	5.0	6.3	8.0	10.0	12.5	16.0	18.0
P	2.0	2.5	3.5	5.0		7.5	
Φ d	0.5		0.6			0.8	

D' = [D+0.5] Max.      L' = [L+1.5] Max. at D≤8.0  
 L' = [L+2.0] 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

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## ▣ Dimensions & Maximum permissible ripple current

$\mu\text{F}$ \ V	6.3	10	16	25	35	50	63	100
3.3						5 x 11 22	5 x 11 25	8 x 11.5 30
4.7				5 x 11 23	5 x 11 25	5 x 11 27	6.3 x 11 31	8 x 11.5 37
10			5 x 11 30	5 x 11 32	6.3 x 11 38	8 x 11.5 49	8 x 11.5 51	10 x 12.5 60
22		5 x 11 42	6.3 x 11 52	6.3 x 11 55	8 x 11.5 65	10 x 12.5 70	10 x 16 86	10 x 20 105
33	5 x 11 46	6.3 x 11 55	6.3 x 11 65	8 x 11.5 72	10 x 12.5 84	10 x 16 90	10 x 20 110	12.5 x 20 150
47	6.3 x 11 61	6.3 x 11 66	8 x 11.5 88	10 x 12.5 96	10 x 12.5 100	10 x 20 126	10 x 20 145	12.5 x 25 185
100	8 x 11.5 100	10 x 12.5 125	10 x 12.5 130	10 x 16 143	10 x 20 175	12.5 x 20 248	12.5 x 25 261	16 x 25 273
220	10 x 12.5 160	10 x 16 190	10 x 20 250	12.5 x 20 310	12.5 x 25 350	16 x 25 410	16 x 31.5 460	16 x 31.5 510
330	10 x 16 220	10 x 20 265	12.5 x 20 310	12.5 x 25 380	16 x 25 460	16 x 31.5 550		18 x 35.5 610
470	10 x 16 290	12.5 x 20 350	12.5 x 25 420	16 x 25 500	16 x 25 535	16 x 25 580		
1,000	12.5 x 25 530	16 x 25 640	16 x 25 700	16 x 31.5 795	16 x 31.5 810	18 x 35.5 970		
	Case size : $\Phi\text{D} \times \text{L}(\text{mm})$							
	Maximum permissible ripple current[mA(rms) at 105°C, 120Hz]							