

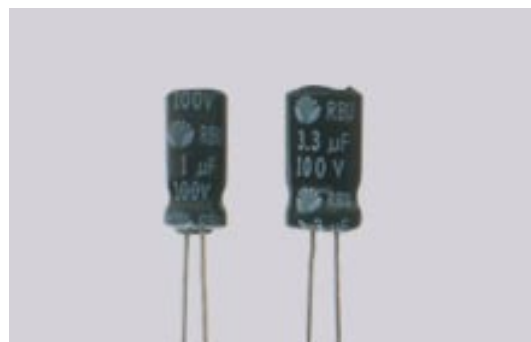
RBU SERIES

ALUMINUM ELECTROLYTIC CAPACITORS

Bi-Polar, 105°C Miniature, Radial Leads

Features

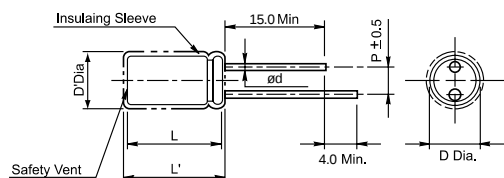
- Bi-polar, 105°C Miniature, Radial leads
- Ideal for inconsistent polarity circuits
- High performance
- load life of 1000 hours at 105°C



Specifications

Item	Performance Characteristics								
Operating temperature range	-40℃ ~ +105℃								
Rated working voltage range	6.3V ~ 100V								
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≤ 0.03CV or 3μA(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)	6.3	10	16	25	35	50	63	100
	δ								
Characteristics at low temperature(max.) (impedance ratio at 120Hz)	W.V (V)	6.3	10	16	25	35	50	63	100
	Z-25℃/Z20℃	4	3	2	2	2	2	2	2
								3	3
Load life	After applying rated working voltage for 1000 hours at +105℃ with the polarity inverted every 250 hours and then being stabilized at +20℃, capacitors shall meet following limits. δ								
	Capacitance change			Within ±20% of initial measured value					
Shelf life	Tan			≤ 200% of initial specified value					
	Leakage current			≤ Initial specified value					
	After storage for 500 hours at +105℃ with no voltage applied and then being stabilized at +20℃, capacitors shall			meet following limits.					
	Capacitance change			Within +20% of initial measured value					

Case sizes and Dimensions



Standard lead style

øD	5.0	6.3	8.0	10.0	13.0	16.0
p	2.0	2.5	3.5	5.0		
ød						

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	300	1K	10K	50~100K
Cap ≤ 10	0.72	1	1.25	1.45	1.65	1.70
10 < Cap ≤ 100	0.75	1	1.19	1.36	1.53	1.57
100 < Cap ≤ 1000	0.79	1	1.15	1.30	1.45	1.49

Temperature

Temperature	≤ 70°C	85°C	105°C
Factor	1.50	1.35	1.0

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

øD x L (mm)

Cap(μF) \ W.V	6.3		10		16		25	
	SIZE	I _R	SIZE	I _R	SIZE	I _R	SIZE	I _R
4.7							5x11	23
10					5x11	30	5x11	32
22			5x11	42	6.3x11	52		55
33	5x11	46	6.3x11	55	6.3x11	65	6.3x11	72
47	6.3x11	61	6.3x11	66	8x11.5	88	8x11.5	96
100	8x11.5	10	10x12.5	12	10x12.5	13	10x12.5	14
220	10x12.5	0	10x16	5	10x20	0	10x16	3
330	10x16	16	10x20	19	13x20	25	13x20	31
470	10x20	0	13x20	0	13x25	0	13x25	0
1000	13x25	22	16x25	26	16x25	31	16x25	38

Cap(μF) \ W.V	35		50		63		100	
	SIZE	I _R	SIZE	I _R	SIZE	I _R	SIZE	I _R
0.47			5x11	8			5x11	9
1.0			5x11	12			5x11	14
2.2			5x11	18			6.3x11	22
3.3			5x11	22	5x11	25	8x11.5	30
4.7	5x11	25	5x11	27	6.3x11	31	8x11.5	37
10	6.3x11	38	8x11.5	49	8x11.5	51	10x12.5	60
22	8x11.5	65	10x12.5	70	10x16	86	10x20	10
33	10x12.5	84	10x16	90	10x20	11	13x20	5
47	10x12.5	10	10x20	126	10x20	0	13x25	15
100	10x20	0	13x20	248	13x25	14	16x25	0
220	13x25	17	16x25	410	16x31.5	5		18
330	16x25	5	16x31.5	550		26		5
470	16x25	35				1		27

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46

3