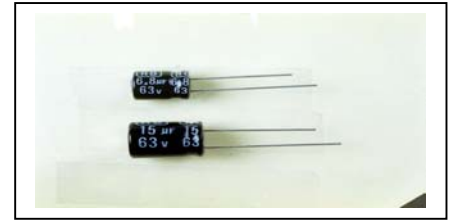


RB Series

- Features
 - Lifetime: 85°C, 1000hrs
 - Non-polarized/Polarity reversing
 - High ripple current

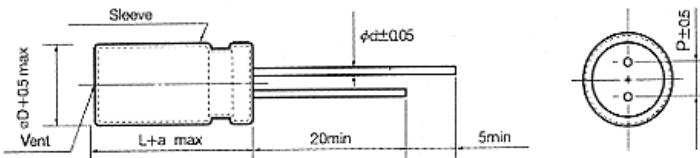
- Recommended Applications
 - Crossover/Speaker network
 - Reversed polarity circuit



Specifications

Items	Characteristics						
Capacitance Tolerance	± 10% (K) (1KHz, 20°C)						
Rated Voltage Range (WV)	25~100 VDC						
Operating Temperature Range	-40 ~ +85°C						
Surge Voltage (V) (20°C)	WV	25	35	50	63	80	100
	SV	32	44	63	79	100	125
Leakage Current (Max) (20°C)	I ≤ 0.03CV or 3 μA whichever is greater (After rated voltage applied for 2 minutes)						
	I = Leakage Current (μA) C = Nominal Capacitance (μF) V = Rated Voltage (V)						
Dissipation Factor (Max) (tan δ) (1KHz, 20°C)	WV	25	35	50	63	80	100
	tan δ	0.17	0.15	0.15	0.12	0.10	0.10
Load Life	After applying rated voltage for 1000 hours at 85°C, the capacitor shall meet the following requirement.						
	Capacitance Change	Within ±20% of the initial value					
	Dissipation Factor	Not more than 200% of the specified value					
	Leakage Current	Not more than the specified value					
Shelf Life	After placed at 85°C without voltage applied for 500 hours, the capacitor shall meet the same requirement as load life.						
Applicable standards	Refer to JIS C 5101						

Dimensions (mm)



φD	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φd	0.5	0.5	0.6	0.6	0.6 (0.8)	0.8	0.8
a	1.0	1.0	1.0	1.0	2.0	2.0	2.0

() : L ≥ 30

Multiplier for Ripple Current

Frequency coefficient

WV (VDC)	Freq. (Hz)				
	50	120	1K	10K	100K
25~35	0.80	0.90	1.00	1.60	1.80
50~100	0.80	0.90	1.00	1.70	2.00

Temperature coefficient

Ambient Temperature (°C)	≤ 50	70	85
Coefficient	1.36	1.25	1.00

Case Size / Max Ripple Current

CASE SIZE (ϕ DxL(mm)) / MAX PERMISSIBLE RIPPLE CURRENT (RC(mArms) / 1KHz,85°C)

WV	25		35		50		63		80		100	
SPEC μ F	ϕ DxL	RC	ϕ DxL	RC	ϕ DxL	RC	ϕ DxL	RC	ϕ DxL	RC	ϕ DxL	RC
1											6.3x11	70
1.5											6.3x11	85
2.2									6.3x11	95	8x11	110
3.3							6.3x11	105	8x11	130	8x11	140
4.7							8x11	145	8x11	155	10x12.5	200
5.6					6.3x11	130	8x11	160	10x12.5	200	10x12.5	215
6.8					8x11	170	8x11	180	10x12.5	220	10x12.5	235
8.2					8x11	185	8x11	195	10x12.5	245	10x15	290
10			6.3x11	170	8x11	205	10x12.5	255	10x12.5	270	10x15	320
15	6.3x11	200	8x11	240	10x12.5	295	10x12.5	310	10x17	390	10x20	445
22	8x11	280	10x12.5	340	10x12.5	360	10x15	420	10x20	505	13x20	625
33	8x11	340	10x12.5	420	10x17	515	10x20	580	13x20	720	13x25	845
47	10x12.5	480	10x15	555	10x20	660	13x20	805	13x25	945	16x26	1155
56	10x12.5	520	10x17	640	13x20	835	13x20	880	13x25	1030	16x26	1260
68	10x15	635	10x17	705	13x20	920	13x25	1070	16x26	1300	16x32	1520
82	10x15	700	10x20	830	13x20	1010	13x25	1175	16x26	1430	16x36	1765
100	10x17	820	13x20	1065	13x25	1230	16x36	1480	16x36	1820	18x36	2080