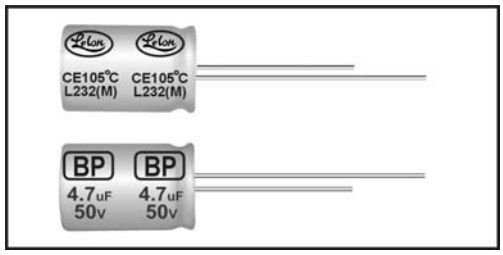
Aluminum Electrolytic Capacitors RBG/RBK

CE04 Type

Features

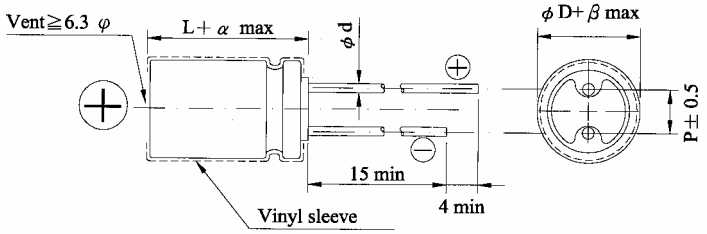
- 105℃, 2000 hours assured, excellent high frequency response characteristics
- Designed specifically for crossover network in Hi-Fi sound systems
- Suitable for improving audio tone and speaker networks.



SPECIFICATIONS

Items	Performance	
	RBG	RBK
Operating Temperature Range	-40℃ ~+105℃	
Rated Voltage	50V, 100V, DC	
Capacitance Tolerance	±20% (at 1K Hz, 20℃)	
Leakage Current (at 20℃)	I = 0.03CV or 3 (μA) whichever is greater (after 2 minutes) Where, C= rated capacitance in μF. V = rated DC working voltage in V.	
Dissipation Factor (Tan δ at 1K Hz, 20℃)	Series / Cap(μF): 0.47 ~ 1.5 — 0.15 — 0.12 2.2 ~ 10 — 0.12 — 0.10 15 up above — 0.09 — 0.08	
Load Life Test (After application of the rated voltage at 105℃, the polarity inverted every 250hrs.)	Test Time: 2000 Hrs Capacitance Change: Within ±20%of initial value Dissipation Factor: Less than 200% of specified value Leakage Current: Within specified value * The above specifications shall be satisfied when the capacitors are restored to 20℃after the rated voltage applied for 2000 hrs at 105℃.	
Shelf Life Test	Test time: 1000 hrs; other items are the same as those for the load life test.	
Other Standards	JIS C 5101-4	

DIAGRAM OF DIMENSIONS



Unit: mm

LEAD SPACING AND DIAMETER

φ D	6.3	8	10	13	16	18	22
P	2.5	3.5	5.0	5.0	7.5	7.5	10
φ d	0.5	0.6			0.8		1.0
α	1.0		1.5				2.0
β	0.5						

DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: φ D × L(mm)
Ripple Current: mA/rms at 1K Hz, 105°C

Series / V.DC / μF / Contents	RBG 50V (1H) φ D × L	RBG 50V (1H) mA	RBG 100V (2A) φ D × L	RBG 100V (2A) mA	RBK 50V (1H) φ D × L	RBK 50V (1H) mA	RBK 100V (2A) φ D × L	RBK 100V (2A) mA
0.47	R47	6.3 × 11	40	6.3 × 11	40	6.3 × 11	45	6.3 × 11	45
0.56	R56	6.3 × 11	40	6.3 × 11	40	6.3 × 11	50	6.3 × 11	50
0.68	R68	6.3 × 11	45	6.3 × 11	45	6.3 × 11	50	6.3 × 11	50
0.82	R82	6.3 × 11	50	6.3 × 11	50	6.3 × 11	55	6.3 × 11	55
1	010	6.3 × 11	55	6.3 × 11	55	8 × 11.5	70	8 × 11.5	70
1.5	1R5	6.3 × 11	70	6.3 × 11	70	8 × 11.5	85	8 × 11.5	85
2.2	2R2	8 × 11.5	90	8 × 11.5	90	10 × 12.5	120	10 × 12.5	120
3.3	3R3	8 × 11.5	110	8 × 11.5	110	10 × 16	165	10 × 16	165
4.7	4R7	10 × 12.5	155	10 × 12.5	155	10 × 20	220	10 × 20	220
6.8	6R8	10 × 16	225	10 × 16	225	13 × 20	305	13 × 20	305
8.2	8R2	10 × 16	230	10 × 16	230	13 × 20	335	13 × 20	335
10	100	10 × 16	250	10 × 16	250	13 × 25	410	13 × 25	410
15	150	10 × 16	320	10 × 16	320	13 × 25	505	13 × 25	505
22	220	13 × 25	550	13 × 25	550	16 × 25	685	16 × 25	685
33	330	16 × 31.5	840	16 × 31.5	840	16 × 31.5	880	16 × 31.5	880
47	470	16 × 31.5	1005	16 × 31.5	1005	18 × 35.5	1185	18 × 35.5	1185
68	680	18 × 35.5	1355	18 × 35.5	1355	22 × 40	1680		