



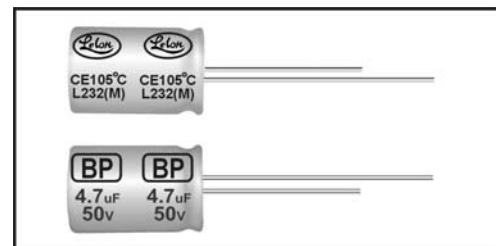
Aluminum Electrolytic Capacitors

RBG/RBK

CE04 Type

Features

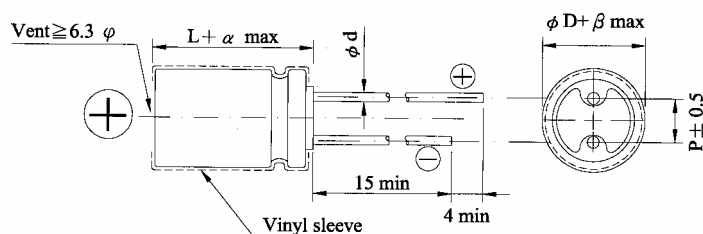
- 105°C, 2000 hours assured, excellent high frequency response characteristics
- Designed specifically for crossover network in Hi-Fi sound systems
- Suitable for improving audio tone and speaker networks.



SPECIFICATIONS

Items	Performance													
	RBG	RBK												
Operating Temperature Range	-40°C ~ +105°C													
Rated Voltage	50V, 100V, DC													
Capacitance Tolerance	±20% (at 1K Hz, 20°C)													
Leakage Current (at 20°C)	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°C)	<table border="1"> <thead> <tr> <th>Series</th> <th>RBG</th> <th>RBK</th> </tr> </thead> <tbody> <tr> <td>Cap(µF) 0.47 ~ 1.5</td> <td>0.15</td> <td>0.12</td> </tr> <tr> <td>2.2 ~ 10</td> <td>0.12</td> <td>0.10</td> </tr> <tr> <td>15 up above</td> <td>0.09</td> <td>0.08</td> </tr> </tbody> </table>		Series	RBG	RBK	Cap(µF) 0.47 ~ 1.5	0.15	0.12	2.2 ~ 10	0.12	0.10	15 up above	0.09	0.08
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Load Life Test (After application of the rated voltage at 105°C, the polarity inverted every 250hrs.)	<table border="1"> <thead> <tr> <th>Test Time</th> <th>2000 Hrs</th> </tr> </thead> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>Less than 200% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Within specified value</td> </tr> </tbody> </table> <p>* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 2000 hrs at 105°C.</p>		Test Time	2000 Hrs	Capacitance Change	Within ±20% of initial value	Dissipation Factor	Less than 200% of specified value	Leakage Current	Within specified value				
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Shelf Life Test	Test time: 1000 hrs; other items are the same as those for the load life test.													
Other Standards	DataSheet4U.com 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 µF	V.DC Contents	RBG				RBK			
		50V (1H)		100V (2A)		50V (1H)		100V (2A)	
		φ D × L	mA	φ D × L	mA	φ D × L	mA	φ D × L	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		