



# 鋁電解電容器

## Aluminum Electrolytic Capacitor



### REB Series 铝电解电容器长寿命品

Long life products of aluminum electrolytic capacitor

- LED 照明用 For LED Lighting
- 寿命: +105 °C 8000~12000 小时 Life time: +105 °C 8000~12000Hrs
- 符合 RoHS 指令 RoHS compliance



### 主要技术性能 Specifications

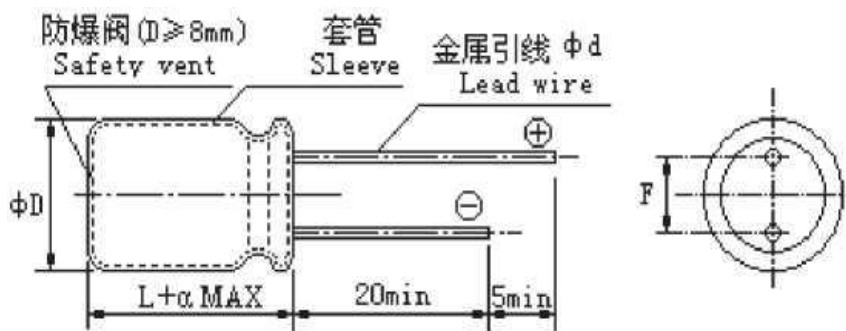
项目 Items	特 性 Characteristics																							
使用温度范围 Operating Temperature Range	-25~+105°C																							
额定电压范围 Rated Voltage Range	160 ~ 500V. DC																							
标称电容量允许偏差 Capacitance Tolerance	±20% (120Hz, 20°C)																							
漏电流(20°C) Leakage Current	CV≤1000	CV>1000																						
	I=0.1CV+40µA (1minute) I=0.03CV+15µA (5minutes)	I=0.04CV+100µA (1 minute) I=0.02CV+25µA (5 minutes)																						
	I=Leakage Current(µA)      C=Capacitance(µF)	V=Rated Voltage(Vdc)																						
损耗角正切值 Dissipation Factor (120Hz 20°C)	<table border="1"> <tr> <th>WV</th> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> <td>500</td> </tr> <tr> <th>tgδ</th> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.24</td> </tr> </table>								WV	160	200	250	350	400	450	500	tgδ	0.15	0.15	0.15	0.20	0.20	0.20	0.24
	WV	160	200	250	350	400	450	500																
tgδ	0.15	0.15	0.15	0.20	0.20	0.20	0.24																	
容量大于 1000 µ F 者, 每增加 1000 µ F, 其损耗角正切值增加 0.02 For capacitance exceeding 1000 µ F, add 0.02 per increment of 1000 µ F																								
温度特性 (120Hz) Temperature Characteristics Impedance Ratio (120Hz)	<table border="1"> <tr> <th>WV</th> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> <td>500</td> </tr> <tr> <th>Z<sub>-25°C</sub>/Z<sub>+20°C</sub></th> <td>3</td> <td>3</td> <td>3</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> </tr> </table>								WV	160	200	250	350	400	450	500	Z <sub>-25°C</sub> /Z <sub>+20°C</sub>	3	3	3	6	6	6	6
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Z <sub>-25°C</sub> /Z <sub>+20°C</sub>	3	3	3	6	6	6	6																	
耐久性 Load Life	+105°C施加额定电压 8000~12000 小时, 恢复 16 小时后, 电容器应满足要求 After applying rated voltage for 8000~12000 hours at +105°C and then resumed 16 hours. The capacitor shall meet the following limits.																							
	电容量变化率 Capacitance Change	≤±30%初始测量值 ≤±20% of Initial measured value						Case Size	Life Time															
	漏电流值 Leakage	≤规定值 ≤The specified value						8×12, 10*12	8000															
	损耗角正切值 Dissipation Factor	≤3 倍规定值 ≤200% of the specified value						10×16, 10×20	10000															
								ΦD≥13	12000															
高温贮存 Shelf Life	+105°C, 1000 小时, 然后按 JISC5101-4 第 4.1 项预处理后测量。 After storage for 1000 hours at +105 °C, the capacitor shall be preconditioned by applying voltage according to Item4.1 of JISC5101-4.																							
	电容量变化率 Capacitance Change	≤±20%初始测量值 ≤±20% of Initial measured value																						
	漏电流值 Leakage	≤规定值 ≤The specified value																						
	损耗角正切值 Dissipation Factor	≤2 倍规定值 ≤200% of the specified value																						

### REB Series

#### ■ 额定纹波电流的频率系数 Frequency coefficient of rated ripple current

频率 (Hz) / CAP (μF)	120	1K	10K	100K≤
1~5.6μF	0.20	0.40	0.80	1.00
6.8~18μF	0.30	0.60	0.90	1.00
22~82μF	0.40	0.70	0.90	1.00
100~220μF	0.45	0.75	0.90	1.00

#### ■ 外形图及尺寸 Case size table



mm

$\phi D \pm 0.5$	8	10	12.5 or 13	16	18
L	12	12, 16, 20	16, 20, 25, 35	20, 25, 32	20, 25, 32
$F \pm 0.5$	3.5	5.0		7.5	
$\phi d \pm 0.05$	0.5	0.6		0.8	
a	2.0				

### REB Series

■ 规格壳号、最大允许纹波电流 Standard sizes & Maximum permissible ripple current

CAP (μF) \ WV	160V		200V		250V		350V	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
4.7					8x12	160	10x13	150
6.8					10x13	250	10x16	280
10	10x16	320	10x16	320	10x16	320	10x20	350
22	10x20	500	10x20	500	10x16 10x20	470 500	13x20	650
33	10x20	650	10x20	650	13x16 13x20	760 800	16x20	900
47	10x20	750	13x20	980	13x20	980	16x20	1080
56					13x20	1080		
68	13x20	1180	13x25 16x20	1300	13x25 16x20	1300	18x25	1470
82			16x20	1380	13x30 16x20	1500 1440	18x25	1530
100	13x25 16x20	1420	16x20	1420	16x25 18x20	1530 1440		
150	16x25	1890	16x25	1890	18x25	1960		
220	18x25	2370	18x25	2370				

CAP(μF) \ WV	400V		450V		500V	
	Size	Ripple	Size	Ripple	Size	Ripple
1	8x12	60				
2.2	8x12 10x13	95 140				
3.3	10x13	150				
4.7	10x16	220	10x16 10x20	180 220		
5.6	10x16	250	10x16 10x20	200 250		
6.8	10x16	280	10x16 10x20	230 280		
8.2			10x20	280		
10	10x20	350	10x20 13x20	330 450	13x20	320
15	13x20	550	13x20 13x25	450 600	13x25 16x20	440
22	13x25	760	13x25 16x20	600 730	16x25	560
33	16x20	900	16x25 18x20	980 780	16x32 18x25	700
47	16x25	1180	18x25	1200	18x32	880
68	18x25	1470				

I~额定纹波电流 Rated ripple current: (mA , 105°C,100KHz)