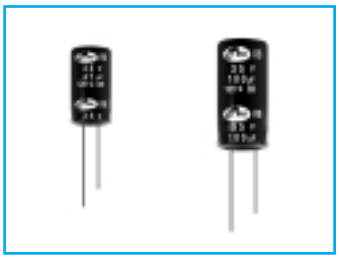
MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

RB High Temperature Range, For 125°C Use Series

- Load life of 2000 hours at 125℃
- Extremely low impedance at high frequency
- For automobile modules and other high temperature applications

RW ⇨ RB
Smaller



Item	Characteristics
Operating temperature range	-55 ~ +125℃
Leakage current max.	I = 0.01CV or 3㎂ whichever is greater (after 2 minutes) I = 0.03CV or 4㎂ whichever is greater (after 1 minute)
Capacitance tolerance	±20% at 120Hz, 20℃
Dissipation factor max. (at 120Hz, 20℃)	Capacitance > 1000㎌ : tanδ increases by 0.02 for each 1000㎌ from below value.

WV	6.3	10	16	25	35	50
tanδ	0.22	0.19	0.16	0.14	0.12	0.10

Low temperature characteristics (Impedance ratio at 120Hz)

WV	6.3 ~10	16 ~ 50
Z-25℃/Z+20℃	3	2
Z-40℃/Z+20℃	5	4

Load life (after application of the rated voltage for 2000 hours at 125℃)

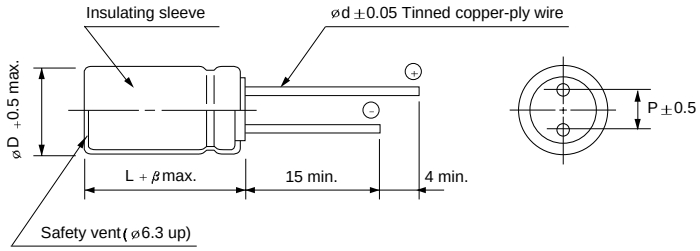
Leakage current	Less than specified value
Capacitance change	Within ±20% of initial value
tanδ	Less than 300% of specified value

ø5, 6.3 and ø8 products are for 1000 hours

Shelf life (at 125°C) — After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value.

DRAWING

Unit : mm



ø D	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ø d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
β	1.0			2.0			

RB series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV / Item / μF	6.3			10			16		
	ø D × L (mm)	Impedance (Ω) max. 20℃ 100kHz	Ripple current (mA rms) 125℃ 100kHz	ø D × L (mm)	Impedance (Ω) max. 20℃ 100kHz	Ripple current (mA rms) 125℃ 100kHz	ø D × L (mm)	Impedance (Ω) max. 20℃ 100kHz	Ripple current (mA rms) 125℃ 100kHz
33									
47							5 × 11	1.0	124
68				5 × 11	1.0	124	6.3 × 11	0.65	176
100	5 × 11	1.1	120	6.3 × 11	0.71	168	6.3 × 11	0.45	212
150	6.3 × 11	0.64	180	6.3 × 11	0.45	212	8 × 11.5	0.30	310
220	6.3 × 11	0.39	228	8 × 11.5	0.31	310	8 × 11.5	0.21	368
330	8 × 11.5	0.26	234	8 × 11.5	0.21	368	10 × 12.5	0.16	500
470	10 × 12.5	0.18	460	10 × 12.5	0.17	480	10 × 16	0.12	616
680	10 × 16	0.14	560	10 × 16	0.12	616	10 × 20	0.085	816
1000	10 × 20	0.097	760	10 × 20	0.078	848	12.5 × 20	0.061	1129
1500	10 × 25	0.071	976	12.5 × 20	0.059	1134	12.5 × 25	0.047	1328
2200	12.5 × 20	0.056	1150	12.5 × 25	0.044	1368	16 × 20	0.043	1440
3300	12.5 × 25	0.044	1368	16 × 20	0.040	1480	16 × 25	0.035	1676
4700	16 × 25	0.042	1548	16 × 31.5	0.030	1936	16 × 35.5	0.026	2144
6800	16 × 31.5	0.031	1896	16 × 35.5	0.026	2144	18 × 35.5	0.023	2320
10000	16 × 40	0.026	2200	18 × 40	0.022	2432			
15000	18 × 40	0.023	2368						

WV / Item / μF	25			35			50		
	ø D × L (mm)	Impedance (Ω) max. 20℃ 100kHz	Ripple current (mA rms) 125℃ 100kHz	ø D × L (mm)	Impedance (Ω) max. 20℃ 100kHz	Ripple current (mA rms) 125℃ 100kHz	ø D × L (mm)	Impedance (Ω) max. 20℃ 100kHz	Ripple current (mA rms) 125℃ 100kHz
1.0							5 × 11	5.2	29
1.5							5 × 11	4.9	36
2.2							5 × 11	4.5	43
3.3							5 × 11	3.9	53
4.7							5 × 11	2.9	65
6.8							5 × 11	2.3	73
10							5 × 11	1.8	92
15							5 × 11	1.2	116
22				5 × 11	0.97	128	6.3 × 11	0.84	156
33	5 × 11	1.0	124	6.3 × 11	0.64	180	6.3 × 11	0.56	192
47	6.3 × 11	0.72	168	6.3 × 11	0.44	216	8 × 11.5	0.39	275
68	6.3 × 11	0.47	208	8 × 11.5	0.31	307	8 × 11.5	0.26	328
100	8 × 11.5	0.31	306	8 × 11.5	0.21	368	10 × 16	0.21	465
150	8 × 11.5	0.21	368	10 × 12.5	0.16	500	10 × 20	0.13	656
220	10 × 12.5	0.17	480	10 × 16	0.12	616	10 × 25	0.098	832
330	10 × 16	0.12	600	10 × 20	0.078	848	12.5 × 20	0.072	1025
470	10 × 20	0.084	816	12.5 × 20	0.060	1121	12.5 × 25	0.057	1200
680	12.5 × 20	0.060	1114	12.5 × 25	0.047	1328	16 × 20	0.052	1304
1000	12.5 × 25	0.047	1328	16 × 20	0.044	1416	16 × 31.5	0.039	1696
1500	16 × 20	0.044	1416	16 × 31.5	0.036	1908	16 × 40	0.034	1928
2200	16 × 25	0.036	1641	16 × 35.5	0.026	2144	18 × 40	0.031	2048
3300	16 × 35.5	0.026	2144	18 × 40	0.022	2432			
4700	18 × 40	0.023	2368						