Aluminum Electrolytic Capacitors — RXB

Features

- 105℃, 5,000 hours assured
- Suitable for switching power supplies, UPS, Ballast
- Smaller size with large permissible ripple current
- RoHS Compliance

Sleeve & Marking Color: Brown & White

SPECIFICATIONS

Items	Performance	
Category Temperature Range	160 ~ 400V	450V
	-40℃ ~ +105℃	-25℃ ~ +105℃
Capacitance Tolerance	±20% (at 120Hz, 20℃)	

Leakage Current (at 20℃)

Time	after 5 minutes	
Leakage Current	CV ≦ 1,000 I = 0.03CV(μA)	CV > 1,000 I = 0.02CV(μA)

Where, C = rated capacitance in μF V = rated DC working voltage in V

Dissipation Factor (Tan δ at 120Hz, 20℃)

Rated Voltage	160	200	250	350	400	450
Tan δ (max)	0.20	0.20	0.20	0.24	0.24	0.24

Low Temperature Characteristics (at 120Hz)

Impedance ratio shall not exceed the values given in the table below.

Rated Voltage		160	200	250	350	400	450
Impedance Ratio	Z(-25) /Z(+20℃)	3	3	3	3	5	6
	Z(-40) /Z(+20℃)	4	4	4	4	6	-

Endurance

Test Time	5,000 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 with rated ripple current for 5,000 hours at 105℃.

Shelf Life Test

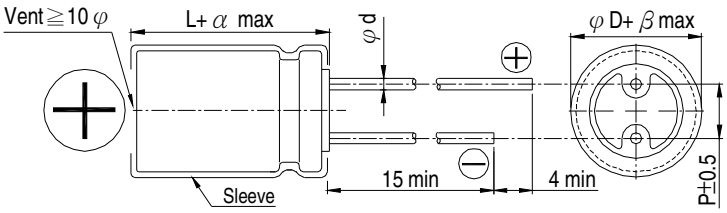
Test Time	1,000 Hrs
Capacitance Change	Within ±20% of initial value
Dissipation Factor	Less than 200% of specified value
Leakage Current	Within specified value

* The above specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 105℃ without voltage applied. The rated voltage shall be applied to the capacitors before the measurements (Refer to JIS C 5101-4 4.1).

Ripple Current & Frequency Multipliers

Cap. (μF) \ Freq.(Hz)	120	1k	10k	100k up
2.2 to 82	1.00	1.20	1.40	1.50
100 up	1.00	1.18	1.35	1.45

DIAGRAM OF DIMENSIONS



Unit: mm

LEAD SPACING AND DIAMETER

ϕD	10	12.5	16	18
P	5.0		7.5	
ϕd	0.6		0.8	
α	1.5			
β	0.5			

Dimension: ϕD × L(mm)
Ripple Current: mA/rms at 105°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

V.DC / Contents μF	160V (2C)			200V (2D)			250V (2E)			350V (2V)			400V (2G)		
	ϕD×L	Ripple Current		ϕD×L	Ripple Current		ϕD×L	Ripple Current		ϕD×L	Ripple Current		ϕD×L	Ripple Current	
		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz
2.2													10×16	70	105
3.3										10×16	72	108	10×16	82	123
4.7										10×16	85	128	10×16	98	147
6.8										10×16	100	150	10×16	120	180
10	10×16	130	195	10×16	150	225	10×16	155	233	10×20	160	240	10×20	170	255
22	10×20	210	315	10×20	230	345	12.5×20	210	315	12.5×25	305	460	12.5×25	320	480
33	12.5×20	300	450	12.5×20	320	480	12.5×20	335	505	16×25	410	615	16×25	425	635
47	12.5×25	340	510	12.5×25	365	548	16×25	560	840	16×31.5	510	765	16×31.5	530	795
68	16×25	535	800	16×25	560	840	16×25	600	900	18×31.5	580	870	18×31.5	600	900
100	16×25	610	885	16×25	645	935	16×31.5	700	1,015	18×35.5	665	965	18×40	700	1,015
120	16×31.5	685	990	16×31.5	710	1,030	18×31.5	790	1,145	18×40	715	1,035	18×45	780	1,130
150	16×31.5	720	1,045	16×31.5	750	1,090	18×35.5	875	1,270						
180	18×31.5	800	1,160	18×31.5	830	1,205	18×40	980	1,420						
220	18×35.5	870	1,260	18×35.5	900	1,305	18×45	1,100	1,595						
270	18×40	980	1,420	18×40	1,100	1,595									
330	18×45	1,050	1,520	18×45	1,250	1,815									

V. DC / Contents μF	450V (2W)		
	ϕD×L	Ripple Current	
		120 Hz	100k Hz
3.3	10×16	85	128
4.7	10×16	105	158
6.8	10×20	170	255
10	12.5×20	280	420
22	16×25	405	610
33	16×31.5	490	735
47	18×31.5	575	865
68	18×40	665	1,000

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