



RXB Series

Features

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

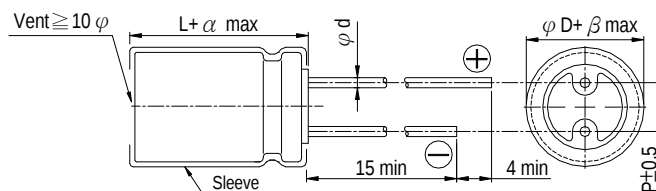


Sleeve & Marking Color: Brown & White

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 (Tanδ at 120Hz, 20℃)								
	Rated Voltage	160	200	250	350	400	450	
	Tanδ (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								
	Freq.(Hz)		120	1k	10k	100k up		
	Cap. (μF)	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



Lead Spacing and Diameter

Unit: mm

ϕD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
ϕd	0.6		0.8	
α	L<20: 1.5, L $\geq$ 20: 2.0			
β	0.5			



Dimension: $\phi D \times L(\text{mm})$

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)		
	ϕ D×L	Ripple Current		ϕ D×L	Ripple Current		ϕ D×L	Ripple Current		ϕ D×L	Ripple Current		ϕ D×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)			
	$\phi D \times L$	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	