



RXB Series

Features

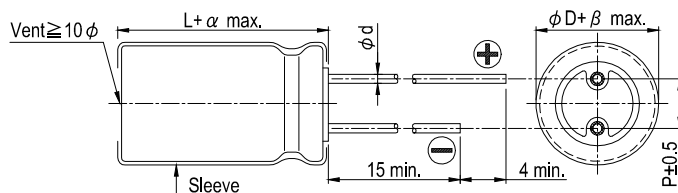
- 105°C, 5,000 hours assured
- Suitable for switching power supplies, UPS, Ballast
- Smaller size with large permissible ripple current
- RoHS compliant



Specifications

Items	Performance																				
Category Temperature Range	160 ~ 400V			450V																	
	-40℃ ~ +105℃			-25℃ ~ +105℃																	
Capacitance Tolerance	± 20% (at 120 Hz, 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																			
Tanδ (at 120 Hz, 20℃)	<table><tr><td>Rated Voltage</td><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td></tr><tr><td>Tanδ (max.)</td><td>0.20</td><td>0.20</td><td>0.20</td><td>0.24</td><td>0.24</td><td>0.24</td></tr></table>						Rated Voltage	160	200	250	350	400	450	Tanδ (max.)	0.20	0.20	0.20	0.24	0.24	0.24	
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 120 Hz)	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																		
	Tanδ		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																		
	Tanδ		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 and Frequency Multipliers	<table><tr><td>Freq.(Hz) Cap. (μF)</td><td>120</td><td>1k</td><td>10k</td><td>100k up</td></tr><tr><td>4.7 ~ 82</td><td>1.00</td><td>1.20</td><td>1.40</td><td>1.50</td></tr><tr><td>100 ≤</td><td>1.00</td><td>1.18</td><td>1.35</td><td>1.45</td></tr></table>						Freq.(Hz) Cap. (μF)	120	1k	10k	100k up	4.7 ~ 82	1.00	1.20	1.40	1.50	100 ≤	1.00	1.18	1.35	1.45
Freq.(Hz) Cap. (μF)	120	1k	10k	100k up																	
4.7 ~ 82	1.00	1.20	1.40	1.50																	
100 ≤	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 and Permissible Ripple Current

Rated Volt. (Vdc) Contents Cap.(μF)	160V (2C)			200V (2D)			250V (2E)			350V (2V)			400V (2G)		
	$\phi D \times L$	Ripple Current		$\phi D \times L$	Ripple Current		$\phi D \times L$	Ripple Current		$\phi D \times L$	Ripple Current		$\phi D \times L$	Ripple Current	
		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz
4.7													10×16	98	147
6.8										10×16	100	150	10×16	120	180
10							10×16	155	233	10×20	160	240	10×20	170	255
22	10×16	190	285	10×16	205	305	12.5×20	210	315	12.5×25	305	460	12.5×25	320	480
33	10×20	255	380	10×20	280	420	12.5×20	335	505	16×25	410	615	16×25	425	635
47	10×20	265	395	12.5×20	330	495	16×25	560	840	16×31.5	510	765	16×31.5	530	795
68	12.5×20	430	645	12.5×25	480	720	16×25	600	900	18×31.5	580	870	18×31.5	600	900
100	12.5×25	540	780	16×20	570	825	16×31.5	700	1,015	18×35.5	665	965	18×40	700	1,015
120	16×20	555	805	16×25	700	1,015	18×31.5	790	1,145	18×40	715	1,035	18×45	780	1,130
150	16×25	645	935	16×31.5	750	1,090	18×35.5	875	1,270						
180	16×31.5	745	1,080	18×31.5	830	1,205	18×40	980	1,420						
220	18×31.5	825	1,196	18×35.5	900	1,305	18×45	1,100	1,595						
270	18×35.5	930	1,350	18×40	1,100	1,595									
330	18×40	995	1,440	18×45	1,250	1,815									

Rated Volt. (Vdc) Contents Cap.(μF)	450V (2W)		
	$\phi D \times L$	Ripple Current	
		120 Hz	100k Hz
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

Part Numbering System

RXB Series	22 μF	$\pm 20\%$	450V	Bulk Package	Gas Type	16 $\phi \times 25\text{L}$	General Purpose
RXB	220	M	2W	BK	-	1625	
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Lead Configuration and Package	Rubber Type	Case Size	Application

Note: For more details, please refer to "Part Numbering System - Radial Type" on page 139.