

## 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

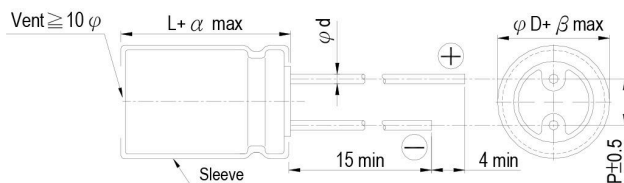


Sleeve & Marking Color: Brown & White

### Specifications

Items	Performance																												
Category Temperature Range	160 ~ 400V	450V																											
	-40°C ~ +105°C	-25°C ~ +105°C																											
Capacitance Tolerance	±20% (at 120Hz, 20°C)																												
Leakage Current (at 20°C)	<table border="1"> <thead> <tr> <th>Time</th> <th colspan="2">after 5 minutes</th> </tr> </thead> <tbody> <tr> <td>Leakage Current</td> <td>CV ≤ 1,000 I = 0.03CV(μA)</td> <td>CV &gt; 1,000 I = 0.02CV(μA)</td> </tr> </tbody> </table> <p>Where, C = rated capacitance in μF V = rated DC working voltage in V</p>		Time	after 5 minutes		Leakage Current	CV ≤ 1,000 I = 0.03CV(μA)	CV > 1,000 I = 0.02CV(μA)																					
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Tanδ (at 120Hz, 20°C)	<table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <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> </tbody> </table>		Rated Voltage	160	200	250	350	400	450	Tanδ (max)	0.20	0.20	0.20	0.24	0.24	0.24													
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Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.																												
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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°C after the rated voltage applied with rated ripple current for 5,000 hours at 105°C.																													
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°C after exposing them for 1,000 hours at 105°C 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	<table border="1"> <thead> <tr> <th>Cap. (μF)</th> <th colspan="4">Freq.(Hz)</th> </tr> </thead> <tbody> <tr> <td>2.2 to 82</td> <td>1.00</td> <td>1.20</td> <td>1.40</td> <td>1.50</td> </tr> <tr> <td>100 up</td> <td>1.00</td> <td>1.18</td> <td>1.35</td> <td>1.45</td> </tr> </tbody> </table>		Cap. (μF)	Freq.(Hz)				2.2 to 82	1.00	1.20	1.40	1.50	100 up	1.00	1.18	1.35	1.45												
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### 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 ≥ 20: 2.0			
β	0.5			

## Dimension & Permissible Ripple Current

Dimension:  $\phi D \times L$ (mm)  
Ripple Current: mA/rms at 105°C

V.DC Contents $\mu F$	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		$\phi D \times L$	Ripple Current			
		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz		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	10×20	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 $\mu F$	450V (2W)			
	$\phi D \times L$	Ripple Current		$\phi D \times L$
		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 $\mu F$      $\pm 20\%$     450V    Bulk Package    Gas Type    16  $\phi \times 25L$     Pb-free and PET coating case  
**RXB**    **220**    **M**    **2W**    **BK**    -    **1625**  
 Series    Capacitance    Capacitance Tolerance    Rated Voltage    Lead Configuration & Package    Rubber Type    Case Size    Lead Wire and Coating Type

Note: For more details, please refer to "Part Numbering System (Radial Type)" on page 10.