

### Features

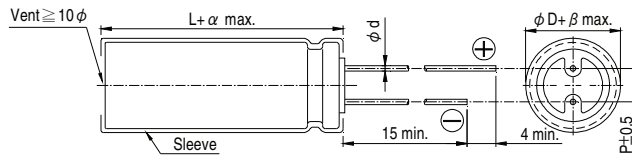
- 105°C, 2,000 hours assured
- Downsize, high allowable ripple current design
- Slim type included
- RoHS compliance



### Specifications

Items	Performance																
Category Temperature Range	400V -40°C ~ +105°C		450V -25°C ~ +105°C														
Capacitance Tolerance	±20% (at 120 Hz, 20°C)																
Leakage Current (at 20°C)	I = 0.02CV+25(µA, after 5 minutes) Where, C = rated capacitance in µF, V = rated DC working voltage in V																
Tanδ (at 120 Hz, 20°C)	<table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>Tanδ (max)</td> <td>0.15</td> <td>0.20</td> </tr> </tbody> </table>					Rated Voltage	400	450	Tanδ (max)	0.15	0.20						
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Low Temperature Characteristics (at 120 Hz)	Impedance ratio shall not exceed the values given in the table below. <table border="1"> <thead> <tr> <th colspan="2">Rated Voltage</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Impedance Ratio</td> <td>Z(-25°C)/Z(+20°C)</td> <td>5</td> <td>6</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>6</td> <td>-</td> </tr> </tbody> </table>					Rated Voltage		400	450	Impedance Ratio	Z(-25°C)/Z(+20°C)	5	6	Z(-40°C)/Z(+20°C)	6	-	
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Shelf Life Test	<table border="1"> <thead> <tr> <th>Test Time</th> <th>1,000 Hrs</th> </tr> </thead> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>Tanδ</td> <td>Less than 200% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Less than 500% of specified value</td> </tr> </tbody> </table> <p>* 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).</p>					Test Time	1,000 Hrs	Capacitance Change	Within ±20% of initial value	Tanδ	Less than 200% of specified value	Leakage Current	Less than 500% of specified value				
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### Diagram of Dimensions



Lead Spacing and Diameter Unit: mm

	10	12.5	16	18
φ D	10	12.5	16	18
P	5.0	5.0	7.5	7.5
φ d	0.6		0.8	
α	2.0			
β	0.5			

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

Rated Voltage (V <sub>DC</sub> )	Cap. (μF)	10 $\phi$				12.5 $\phi$				16 $\phi$			18 $\phi$		
		$\phi D \times L$	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		
400V (2G)	27	10x30	315	475											
	33	10x35	355	535											
	39	10x40	425	640											
	47	10x45	485	730											
	56	10x50	535	805	12.5x35	530	795								
	68				12.5x40	610	915								
	82				12.5x45	690	1,035	16x31.5	680	1,020					
	100				12.5x50	765	1,150	16x35.5	775	1,165					
	120							16x40	865	1,300	18x31.5	825	1,240		
	150							16x45	960	1,440	18x40	1,015	1,525		
180							16x50	1,090	1,635	18x45	1,140	1,710			
220										18x50	1,240	1,860			
450V (2W)	22	10x30	290	435											
	27	10x35	340	510											
	33	10x40	395	595											
	39	10x45	440	660	12.5x30	420	630								
	47				12.5x35	485	730								
	56				12.5x40	550	825								
	68				12.5x45	630	945	16x31.5	625	940					
	82				12.5x50	680	1,020	16x35.5	700	1,050					
	100							16x40	785	1,180	18x31.5	780	1,170		
	120							16x50	915	1,375	18x35.5	840	1,260		
150										18x45	1,045	1,570			
180										18x50	1,160	1,740			

Remark: Other sizes and specification are available, please contact us for detail.

### Part Numbering System

RXR Series    82μF    ±20%    450V    Bulk Package    Gas Type    12.5  $\phi$  x50L

**RXR**    **820**    **M**    **2W**    **BK**    -    **1350**

Series Name    Capacitance    Capacitance Tolerance    Rated Voltage    Lead Configuration and Package    Rubber Type    Case Size

**XX**

**S** = Standard  
**KS** = AEC-Q200 Qualified, Safety Critical Application  
**LS** = AEC-Q200 Qualified, Non-Safety Critical Application