

RXR Series

Features

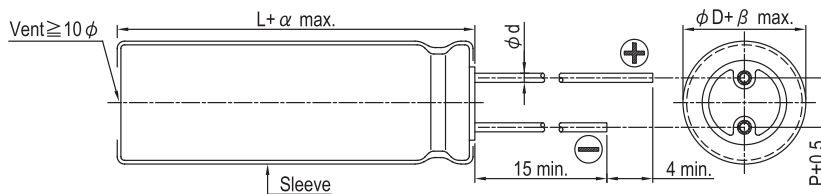
- 105°C, 2,000 hours assured
- Downsize, high allowable ripple current design
- Slim type included
- RoHS compliant



Specifications

Items	Performance																					
Category	400V		450V																			
Temperature Range	-40°C ~ +105°C		-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"> <tr> <td>Rated Voltage</td> <td>400</td> <td>450</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Tanδ (max)</td> <td>0.15</td> <td>0.20</td> <td></td> <td></td> <td></td> </tr> </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"> <tr> <td colspan="2">Rated Voltage</td> <td>400</td> <td>450</td> <td></td> <td></td> </tr> <tr> <td rowspan="2">Impedance Ratio</td> <td>Z(-25°C)/Z(+20°C)</td> <td>5</td> <td>6</td> <td></td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>6</td> <td>-</td> <td></td> <td></td> </tr> </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"> <tr> <td>Test Time</td> <td>1,000 Hrs</td> </tr> <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> </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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Ripple Current and Frequency Multipliers	<table border="1"> <tr> <td>Frequency (Hz)</td> <td>60</td> <td>120</td> <td>500</td> <td>1k</td> <td>10k up</td> </tr> <tr> <td>Multipliers</td> <td>0.8</td> <td>1.00</td> <td>1.25</td> <td>1.45</td> <td>1.50</td> </tr> </table>					Frequency (Hz)	60	120	500	1k	10k up	Multipliers	0.8	1.00	1.25	1.45	1.50					
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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

Dimension and Permissible Ripple Current

Rated Voltage (V _{DC})	Cap. (μF)	10 φ				12.5 φ				16 φ				18 φ			
		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	
400V (2G)	27	10×30	315	475													
	33	10×35	355	535													
	39	10×40	425	640													
	47	10×45	485	730													
	56	10×50	535	805	12.5×35	530	795										
	68				12.5×40	610	915										
	82				12.5×45	690	1,035	16×31.5	680	1,020							
	100				12.5×50	765	1,150	16×35.5	775	1,165							
	120							16×40	865	1,300	18×31.5	825	1,240				
	150							16×45	960	1,440	18×40	1,015	1,525				
	180							16×50	1,090	1,635	18×45	1,140	1,710				
220										18×50	1,240	1,860					
450V (2W)	22	10×30	290	435													
	27	10×35	340	510													
	33	10×40	395	595													
	39	10×45	440	660	12.5×30	420	630										
	47				12.5×35	485	730										
	56				12.5×40	550	825										
	68				12.5×45	630	945	16×31.5	625	940							
	82				12.5×50	680	1,020	16×35.5	700	1,050							
	100							16×40	785	1,180	18×31.5	780	1,170				
	120							16×50	915	1,375	18×35.5	840	1,260				
	150										18×45	1,045	1,570				
180										18×50	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 φ ×50L General Purpose

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

Radial