



RXR Series

Features

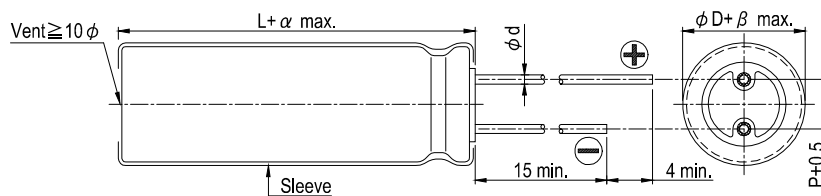
- 105°C, 2,000 hours assured
- Downsize, high allowable ripple current design
- Slim type included
- RoHS compliant



Specifications

Items	Performance																
Category Temperature Range	400V			450V													
	-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><tr><td>Rated Voltage</td><td>400</td><td>450</td></tr><tr><td>Tanδ (max.)</td><td>0.15</td><td>0.20</td></tr></table>					Rated Voltage	400	450	Tanδ (max.)	0.15	0.20						
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Tanδ (max.)	0.15	0.20															
Low Temperature Characteristics (at 120 Hz)	Impedance ratio shall not exceed the values given in the table below.																
	Rated Voltage		400	450													
	Impedance Ratio	Z(-25°C) / Z(+20°C)	5	6													
Z(-40°C) / Z(+20°C)		6	-														
Endurance	Test Time		2,000 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 2,000 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		Less than 500% of 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 and Frequency Multipliers	<table><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

ϕD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
ϕd	0.6		0.8	
α	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 Voltage (V _{DC})	Cap. (μF)	10 ϕ				12.5 ϕ				16 ϕ				18 ϕ			
		$\phi D \times L$	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		$\phi D \times L$
			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 82 μF $\pm 20\%$ 450V Bulk Package Gas Type 12.5 $\phi \times 50\text{L}$ 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.