RXR Series

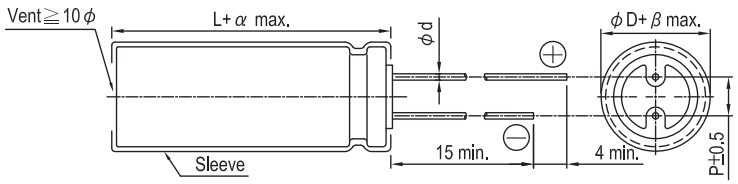
Features

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

Specifications

Items	Performance		
Category Temperature Range	400V	450V	
	-40℃ ~ +105℃	-25℃ ~ +105℃	
Capacitance Tolerance	±20%		(at 120 Hz, 20℃)
Leakage Current (at 20℃)	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℃)	Rated Voltage: 400 / 450 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℃)/Z(+20℃): 5 / 6 Impedance Ratio Z(-40℃)/Z(+20℃): 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	Frequency (Hz): 60 / 120 / 500 / 1k / 10k up Multipliers: 0.8 / 1.00 / 1.25 / 1.45 / 1.50		

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			

Radial

Dimension: ϕD × L(mm)
Ripple Current: mA/rms at 105℃

Dimension and Permissible Ripple Current

Rated Voltage (V_{DC})	Cap. (μF)	10ϕ			12.5ϕ			16ϕ			18ϕ		
		ϕD×L	Ripple Current		ϕD×L	Ripple Current		ϕD×L	Ripple Current		ϕD×L	Ripple Current	
			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	12.5ϕ×50L	Pb-free and PET sleeve
RXR	**820**	**M**	**2W**	**BK**	**-**	**1350**	
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Lead Configuration and Package	Rubber Type	Case Size	Lead Wire and Sleeve type

Note: For more details, please refer to “Part Numbering System (Radial Type)” on page 13.