RXC Series

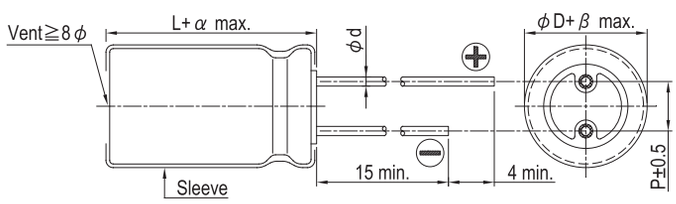
Features

- 105℃, 2,000 ~ 3,000 hours assured
- Suitable for switching power supplies, UPS
- Smaller size with large permissible ripple current
- RoHS compliace

Specifications

Items	Performance						
Category Temperature Range	160 ~ 400V					450V	
	-40℃ ~ +105℃					-25℃ ~ +105℃	
Capacitance Tolerance	±20% (at 120 Hz, 20℃)						
Leakage Current (at 20℃)	Time: After 5 minutes Leakage Current: CV ≤ 1,000: I = 0.03CV(μA); CV > 1,000: I = 0.02CV(μA) Where, C = rated capacitance in μF, V = rated DC working voltage in V						
Tanδ (at 120 Hz, 20℃)	Rated Voltage: 160 / 200 / 250 / 350 / 400 / 450 Tanδ (max): 0.20 / 0.20 / 0.20 / 0.24 / 0.24 / 0.24						
Low Temperature Characteristics (at 120 Hz)	Impedance ratio shall not exceed the values given in the table below.						
	Rated Voltage		160	200	250	350	400	450
	Impedance Ratio	Z(-25℃)/Z(+20℃)	3	3	3	3	5	6
		Z(-40℃)/Z(+20℃)	4	4	4	4	6	-
Endurance	Test Time: 2,000 Hrs for φD ≦ 10 mm; 3,000 Hrs for φD ≧ 12.5 mm 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℃ after the rated voltage applied with rated ripple current for 2,000 ~ 3,000 hours at 105℃.						
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℃ after exposing them for 1,000 hours at 105℃ 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	Freq.(Hz) / Cap. (μF)	120	1k	10k	100k		
	≦ 82	1.00	1.20	1.40	1.50		
	100 ≦	1.00	1.18	1.35	1.45		

Diagram of Dimensions



Lead Spacing and Diameter Unit: mm

φD	8	10	12.5	16	18
P	3.5	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				

90

Dimension: ϕD × L(mm)

Dimension and Permissible Ripple Current

Ripple Current: mA/rms, 105°C

Rated Volt. (VDC) / Contents / Cap.(μF)	160V (2C)			200V (2D)			250V (2E)			350V (2V)			400V (2G)		
	ϕD×L	Ripple Current		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		120 Hz	100k Hz
2.2										10×12.5	55	83	10×12.5	55	83
3.3	8×11.5	48	72	8×11.5	52	78	8×11.5	65	98	10×16	75	113	10×16	75	113
4.7	8×11.5	58	87	10×12.5	88	132	10×12.5	90	135	10×20	120	180	10×20	100	150
10	10×12.5 10×16	88 100	132 150	10×16	125	188	10×16	150	225	10×20	150	225	10×20	145	218
22	10×16	155	233	10×20	170	255	12.5×20	240	360	12.5×20	240	360	12.5×25	260	390
33	10×20	220	330	12.5×20	275	415	12.5×25	365	550	12.5×25	300	450	12.5×25	285	430
47	12.5×25	340	510	12.5×20	295	445	12.5×25	390	585	16×25	410	615	16×25	400	600
68	12.5×25	385	580	12.5×25	395	595	16×25	485	730	16×31.5	485	730	16×31.5	490	735
100	12.5×25	450	655	16×25	550	800	16×31.5	630	915	16×31.5	520	755	18×31.5	610	885
150	16×25	610	885	16×31.5	720	1,045	18×31.5	780	1,130						
220	16×31.5	755	1,095	18×35.5	900	1,305	18×40	970	1,405						
330	18×35.5	940	1,360												

Rated Volt. (VDC) / Contents / Cap.(μF)	450V (2W)		
	ϕD×L	Ripple Current	
		120 Hz	100k Hz
1.5	10×12.5	50	75
2.2	10×12.5	60	90
3.3	10×16	80	120
4.7	10×20	105	158
10	12.5×16	165	248
22	12.5×25	270	405
33	16×31.5	410	615
47	18×31.5	495	745
68	18×35.5	540	810

Part Numbering System

RXC Series	22μF	±20%	450V	Bulk Package	Gas Type	12.5ϕ×25L	General Purpose
RXC	**220**	**M**	**2W**	**BK**	**-**	**1325**	
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.