



RXC Series

Features

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

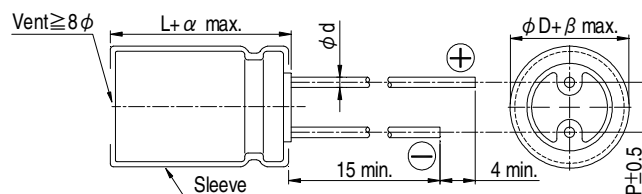


Sleeve & Marking Color: Brown & White

Specifications

Items	Performance							
Category Temperature Range	160 ~ 400V				450V			
	-40°C ~ +105°C				-25°C ~ +105°C			
Capacitance Tolerance	±20% (at 120Hz, 20°C)							
Leakage Current (at 20°C)	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 120Hz, 20°C)	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 120Hz)	Impedance ratio shall not exceed the values given in the table below.							
	Rated Voltage		160	200	250	350	400	450
	Impedance Ratio	Z(-25°C)/Z(+20°C)	3	3	3	3	5	6
Z(-40°C)/Z(+20°C)		4	4	4	4	6	-	
Endurance	Test Time		2,000 Hrs for ϕ D ≤ 10 mm; 3,000 Hrs for ϕ D ≥ 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°C after the rated voltage applied with rated ripple current for 2,000 ~ 3,000 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		Within 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	Freq.(Hz)		120	1k	10k	100k		
	Cap. (μF)							
	1 to 82	1.00	1.20	1.40	1.50			
	100 up	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 $\geq$ 20: 2.0				
β	0.5				



Dimension: $\phi D \times L(\text{mm})$

Ripple Current: mA/rms, 105°C

Dimension and Permissible Ripple Current

Cap. (μF)	Contents	160V (2C)			200V (2D)			250V (2E)			350V (2V)			400V (2G)		
		$\phi D \times L$	Ripple Current 120 Hz	100k Hz	$\phi D \times L$	Ripple Current 120 Hz	100k Hz	$\phi D \times L$	Ripple Current 120 Hz	100k Hz	$\phi D \times L$	Ripple Current 120 Hz	100k Hz	$\phi D \times L$	Ripple Current 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	10×12.5	80	120	10×16	75	113	10×16	75	113
4.7		8×11.5	58	87	10×12.5	88	132	10×16	105	158	10×20	120	180	10×20	100	150
10		10×12.5 10×16	88 100	132 150	10×16	125	188	10×20	165	248	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												

Cap. (μF)	Contents	450V (2W)	
		$\phi D \times L$	Ripple Current
1.5		10×12.5	50
2.2		10×16	68
3.3		10×20	88
4.7		12.5×20	140
10		12.5×25	200
22		16×25	305
33		16×31.5	410
47		18×31.5	495
68		18×35.5	540

Part Numbering System

RXC Series	22μF	±20%	450V	Bulk Package	Gas Type	16 ϕ × 25L	Pb-free and PET sleeve
RXC	220	M	2W	BK	-	1625	
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Lead Configuration & 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.