



RXC Series

Features

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

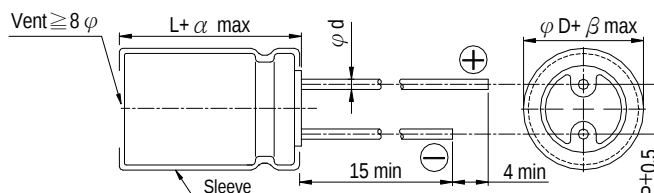


Sleeve & Marking Color: Brown & White

Specifications

Items	Performance							
Category Temperature Range	160 ~ 400V				450V			
	-40℃ ~ +105℃				-25℃ ~ +105℃			
Capacitance Tolerance	±20% (at 120Hz, 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)			
Dissipation Factor (Tanδ at 120Hz, 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 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℃)/Z(+20℃)	3	3	3	3	5	6
Z(-40℃)/Z(+20℃)		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					
	Dissipation Factor		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					
	Dissipation Factor		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℃ 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 & Frequency Multipliers								
	Freq.(Hz)		120	1k	10k	100k		
	Cap. (μF)		1.00	1.20	1.40	1.50		
	1 to 82		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	1.0	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 & Permissible Ripple Current

V.DC Contents μF	160V (2C)			200V (2D)			250V (2E)			350V (2V)			400V (2G)		
	$\phi D \times L$	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	
		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz
1.5													10×12.5	48	72
2.2							8×11.5	47	71	10×12.5	55	83	10×16	66	99
3.3	8×11.5	48	72	8×11.5	52	78	10×12.5	80	120	10×16	75	113	10×20	85	128
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	10×16	100	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	16×31.5	445	665
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												

V.DC Contents μF	450V (2W)		
	$\phi D \times L$	Ripple Current	
		120 Hz	100k Hz
1.5	10×12.5	50	75
2.2	10×16	68	102
3.3	10×20	88	132
4.7	12.5×20	140	210
10	12.5×25	200	300
22	16×25	305	460
33	16×31.5	410	615
47	18×31.5	495	745
68	18×35.5	540	810