

## RXC Series

### Features

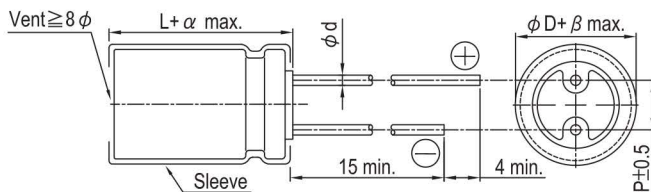
- 105°C, 2,000 ~ 3,000 hours assured
- Suitable for switching power supplies, UPS
- Smaller size with large permissible ripple current
- RoHS compliance
- AEC-Q200 Parts Available: Replace “S” Suffix with “KS” or “LS” Suffix



### Specifications

Items	Performance																							
Category	160 ~ 400V	450V																						
Temperature Range	-40°C ~ +105°C	-25°C ~ +105°C																						
Capacitance Tolerance	±20% (at 120 Hz, 20°C)																							
Leakage Current (at 20°C)	<table border="1"> <thead> <tr> <th>Time</th> <th colspan="2">After 5 minutes</th> </tr> </thead> <tbody> <tr> <td>Leakage Current</td> <td>CV ≤ 1,000 I = 0.03CV(μA)</td> <td>CV &gt; 1,000 I = 0.02CV(μA)</td> </tr> </tbody> </table> <p>Where, C = rated capacitance in μF, V = rated DC working voltage in V</p>		Time	After 5 minutes		Leakage Current	CV ≤ 1,000 I = 0.03CV(μA)	CV > 1,000 I = 0.02CV(μA)																
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Tanδ (at 120 Hz, 20°C)	<table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>Tanδ (max)</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.24</td> <td>0.24</td> <td>0.24</td> </tr> </tbody> </table>		Rated Voltage	160	200	250	350	400	450	Tanδ (max)	0.20	0.20	0.20	0.24	0.24	0.24								
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Low Temperature Characteristics (at 120 Hz)	<p>Impedance ratio shall not exceed the values given in the table below.</p> <table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Impedance Ratio</td> <td>Z(-25°C)/Z(+20°C)</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>5</td> <td>6</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>6</td> <td>-</td> </tr> </tbody> </table>		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	-
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### Diagram of Dimensions



### Lead Spacing and Diameter Unit: mm

φ D	8	10	12.5	16	18
P	3.5	5.0	5.0	7.5	7.5
φ d	0.6			0.8	
α	L < 20: 1.5, L ≥ 20: 2.0				
β	0.5				

Dimension:  $\phi D \times L$ (mm)

Ripple Current: mA/rms, 105°C

### Dimension and Permissible Ripple Current

Rated Volt. (V <sub>DC</sub> ) Contents Cap. (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
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. (V <sub>DC</sub> ) Contents Cap. (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

### Part Numbering System

RXC Series	22μF	±20%	450V	Bulk Package	Gas Type	16 $\phi$ × 25L
<b>RXC</b>	<b>220</b>	<b>M</b>	<b>2W</b>	<b>BK</b>	-	<b>1625</b> <b>S</b>
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Lead Configuration and Package	Rubber Type	Case Size   Regional Code

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