

RXQ Series

Features

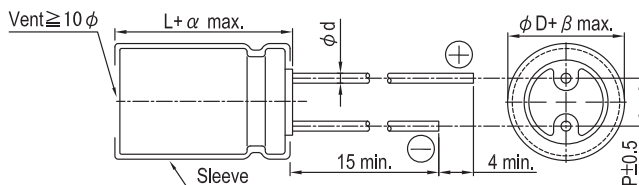
- 105°C, 8,000 ~ 10,000 hours assured
- Suitable for switching power supplies, UPS, Ballast
- Smaller case size current
- RoHS compliance



Specifications

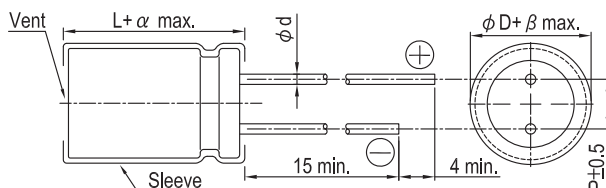
Items	Performance																								
	160 ~ 400V -40°C ~ +105°C	450V -25°C ~ +105°C																							
Category Temperature Range																									
Capacitance Tolerance	±20% (at 120 Hz, 20°C)																								
Leakage Current (at 20°C)	<table border="1"> <thead> <tr> <th>Time</th> <th colspan="2">after 5 minutes</th> </tr> </thead> <tbody> <tr> <td>Leakage Current</td> <td>CV ≤ 1,000 I = 0.03CV + 15(μA)</td> <td>CV > 1,000 I = 0.02CV + 25(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 + 15(μA)	CV > 1,000 I = 0.02CV + 25(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 colspan="2">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>5</td> <td>5</td> <td>6</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>6</td> <td>6</td> <td>6</td> <td>6</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	5	5	6	Z(-40°C)/Z(+20°C)	6	6	6	6	6	-
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Frequency (Hz)	120	1k	10k	100k up																					
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6.8 ~ 82	1.00	1.75	2.25	2.50																					
100 ≤	1.00	1.67	2.05	2.25																					

Diagram of Dimensions



Lead Spacing and Diameter				Unit: mm
φ D	10	12.5	16	18
P	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			

The case size of 16×20, 18×20 and 18×25 are suitable for below diagram:





Dimension: $\phi D \times L$ (mm)
Ripple Current: mA/rms at 105°C

Dimension and Permissible Ripple Current

Rated Volt. (V _{DC}) Contents Cap.(μ F)	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
6.8										10×16	110	275	10×16	110	275
10	10×12.5	100	250	10×16	125	313	10×20	140	350	10×20	140	350	10×20	140	350
22	10×16 10×20	170 200	425 500	10×20	200	500	10×20	200	500	12.5×20	260	650	12.5×20	260	650
33	10×20	250	625	10×20	260	650	12.5×20	320	800	16×20	360	900	16×20	360	900
47	10×20	300	750	12.5×20	390	975	12.5×20	390	975	16×20	430	1,075	16×25 18×20	470 450	1,175 1,125
68	12.5×20	470	1,175	12.5×20	470	1,175	16×20	520	1,300	16×25 18×20	560 550	1,400 1,375	18×25	585	1,463
82	12.5×20	510	1,275	16×20	550	1,375	16×20	550	1,375	18×25	610	1,525	18×25	610	1,525
100	12.5×25 16×20	620 630	1,395 1,418	16×20	630	1,418	16×25	680	1,530	18×25	700	1,575	18×31.5	765	1,721
120										18×31.5	830	1,868	18×35.5	865	1,946
150	16×25	770	1,733	16×25	840	1,890	18×25	860	1,935	18×35.5	960	2,160	18×40	985	2,216
220	16×31.5	1,020	2,295	18×25	1,050	2,363	18×31.5	1,130	2,543						
330	18×35.5	1,390	3,128	18×35.5	1,430	3,218									

Rated Volt. (V _{DC}) Contents Cap.(μ F)	450V (2W)		
	$\phi D \times L$	Ripple Current	
		120 Hz	100k Hz
6.8	10×20	110	275
10	12.5×20	180	450
22	16×20	290	725
33	16×25 18×20	390 380	975 950
47	18×25	480	1,200
68	18×31.5	630	1,575
82	18×35.5	715	1,788
100	18×40	800	1,800

Part Numbering System

RXQ Series	10 μ F	\pm 20%	450V	Bulk Package	Gas Type	12.5 ϕ ×20L	Pb-free and PET sleeve
RXQ	100	M	2W	BK	-	1320	
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.

Radial