

RQL Series

Features

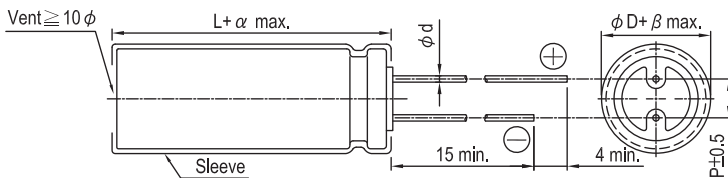
- 105°C, 10,000 hours assured
- 10 φ ~ 18 φ with large permissible ripple current
- Slim type included
- RoHS compliance



Specifications

Items	Performance																					
	Category Temperature Range	400V -40°C ~ +105°C		420 ~ 450V -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="4">after 5 minutes</th> </tr> </thead> <tbody> <tr> <td>Leakage Current</td> <td>CV ≤ 1,000 I = 0.03CV + 15(μA)</td> <td>420</td> <td>450</td> <td>CV > 1,000 I = 0.02CV + 25(μA)</td> <td></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)	420	450	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>400</th> <th>420</th> <th>450</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Tanδ (max)</td> <td>0.24</td> <td>0.24</td> <td>0.24</td> <td></td> <td></td> </tr> </tbody> </table>					Rated Voltage	400	420	450			Tanδ (max)	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>400</th> <th>420</th> <th>450</th> <th></th> </tr> </thead> <tbody> <tr> <td rowspan="2">Impedance Ratio</td> <td>Z(-25°C)/Z(+20°C)</td> <td>5</td> <td>6</td> <td>6</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>6</td> <td>-</td> <td>-</td> <td></td> </tr> </tbody> </table>					Rated Voltage		400	420	450		Impedance Ratio	Z(-25°C)/Z(+20°C)	5	6	6		Z(-40°C)/Z(+20°C)	6	-	-	
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Diagram of Dimensions



Lead Spacing and Diameter Unit: mm

	10	12.5	16	18
φ D	10	12.5	16	18
P	5.0	5.0	7.5	7.5
φ d	0.6		0.8	
α	2.0			
β	0.5			

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

Rated Voltage (V _{DC})	Cap. (μF)	10 φ			12.5 φ			16 φ			18 φ		
		φ D×L	Ripple Current		φ D×L	Ripple Current		φ D×L	Ripple Current		φ D×L	Ripple Current	
			120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz
400V (2G)	33	10×40	315	475									
	39	10×45	360	545									
	47	10×50	420	630	12.5×30	440	660						
	56				12.5×35	500	750						
	68				12.5×40	580	870	16×31.5	530	795			
	82				12.5×50	625	935	16×35.5	615	920			
	100							16×40	715	1,070			
	120							16×40 16×45	800 840	1,200 1,260	18×35.5 18×40	790 870	1,185 1,305
	150							16×50	990	1,485	18×45	985	1,475
	180										18×50	1,120	1,685
420V (2P)	33	10×40	370	555									
	39	10×45	410	615	12.5×30	390	585						
	47	10×50	465	700	12.5×35	450	675						
	56				12.5×40	520	780	16×31.5	500	750			
	68				12.5×45	580	870	16×35.5	580	870			
	82				12.5×50	660	990	16×35.5 16×40	730 675	1,095 1,010			
	100							16×40 16×45	750 755	1,125 1,130	18×35.5	725	1,085
	120							16×50	865	1,300	18×40 18×45	835 880	1,250 1,320
	150										18×50	1,030	1,550
	450V (2W)	33	10×45	330	495	12.5×30	370	555					
39		10×50	380	570	12.5×35	420	630						
47					12.5×40	480	720						
53					12.5×45	500	750						
56					12.5×45	530	795	16×31.5	510	765			
68					12.5×50	620	930	16×35.5	590	885			
82								16×40	615	920	18×35.5	645	965
100								16×45	715	1,070	18×40	750	1,125
120								16×50	820	1,230	18×45	835	1,250
150											18×50	975	1,465

Remark: Other sizes and specification are available, please contact us for detail.

Part Numbering System

RQL Series 39μF ±20% 450V Bulk Package Gas Type 10 φ ×50L Pb-free and PET sleeve

RQL **390** **M** **2W** **BK** - **1050**

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.