

## RLD Series

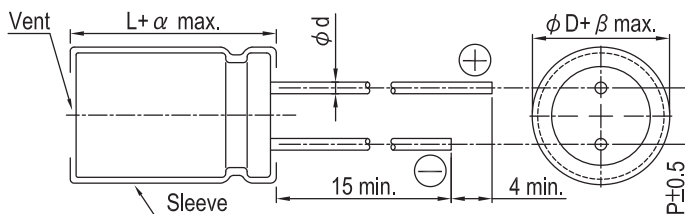
### Features

- 105°C, 12,000 hours assured
- 10 φ ~ 18 φ with large permissible ripple current
- Suitable for switching power supplies, UPS, Ballast
- Smaller case size current
- RoHS compliance

### Specifications

Items	Performance																								
	160 ~ 400V	450V																							
Category 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 + 15(μA)</td> <td>CV &gt; 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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### 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	2.0			
β	0.5			



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

Dimension and Permissible Ripple Current

Rated Volt. (Vdc) 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							
22													10×25	215	538							
27										10×25	240	600	10×35	270	675							
33										10×35	300	750	10×40	310	775							
47										10×35	300	750	12.5×25	355	888							
47								10×25	315	788	12.5×30	450	1,125	10×50	400	1,000						
56													10×45	385	963	12.5×35	480	1,200				
56								10×25	345	863	12.5×25	460	1,150	10×50	440	1,100	12.5×40	540	1,350			
56													12.5×35	525	1,313	16×25	515	1,288				
68	10×25	375	938	10×35	425	1,063	10×35	430	1,075	12.5×25	510	1,275	12.5×40	595	1,488	16×25	565	1,413	18×25	580	1,450	
68													16×25	565	1,413	12.5×45	675	1,688	12.5×45	620	1,550	
82	10×30	445	1,113	12.5×25	565	1,413	10×45	515	1,288	12.5×45	675	1,688	16×31.5	670	1,675	16×31.5	670	1,675	16×35.5	685	1,713	
82																						
100	10×35	520	1,170	10×45	565	1,271	10×50	585	1,316	12.5×30	590	1,475	12.5×35	700	1,575	16×40	785	1,766	18×35.5	790	1,778	
100																						
100																						
120	10×40	595	1,339	10×50	640	1,440	12.5×40	795	1,789	12.5×40	795	1,789	16×45	870	1,958	16×45	870	1,958	16×50	890	2,003	
120	12.5×25	680	1,700	12.5×35	765	1,721	16×25	755	1,699	16×25	755	1,699	18×31.5	840	1,890	18×31.5	840	1,890	18×40	880	1,980	
150	10×50	715	1,609	12.5×40	880	1,980	12.5×45	920	2,070	12.5×45	920	2,070	18×40	985	2,216	18×40	985	2,216	18×45	1,000	2,250	
150	12.5×35	850	1,913	16×25	840	1,890	18×25	865	1,946	18×25	865	1,946										
180	16×25	920	2,070	16×31.5	995	2,239	18×25	950	2,138	16×31.5	995	2,239	16×35.5	1,015	2,284	18×45	1,090	2,453				
180																						
220	16×31.5	1,100	2,475	16×35.5	1,125	2,531	16×40	1,160	2,610	18×25	1,050	2,363	18×31.5	1,135	2,554	18×40	1,320	2,970	18×50	1,220	2,745	
220	18×25	1,050	2,363	18×31.5	1,135	2,554	18×31.5	1,135	2,554	16×40	1,160	2,610	18×31.5	1,135	2,554	18×50	1,220	2,745				
270	16×35.5	1,240	2,790	16×40	1,280	2,880	16×50	1,330	2,993	18×40	1,320	2,970										
270	18×31.5	1,255	2,824	18×35.5	1,300	2,925	18×40	1,320	2,970													
330	16×40	1,420	3,195	16×50	1,470	3,308	18×40	1,485	3,341	18×40	1,320	2,970										
330	18×35.5	1,435	3,229	18×40	1,510	3,398	18×45	1,485	3,341													
390	16×45	1,575	3,544	18×45	1,610	3,623	18×50	1,625	3,656													
390	18×40	1,590	3,578																			
470	16×50	1,760	3,960																			
470	18×45	1,770	3,983																			
560	18×50	1,945	4,376																			

Rated Volt. (Vdc) Contents Cap. (μF)	450V (2W)		
	$\phi D \times L$	Ripple Current	
		120 Hz	100k Hz
15	10×25	185	463
22	10×35	250	625
27	10×40	290	725
27	12.5×25	340	850
33	12.5×30	400	1,000
47	12.5×40	525	1,313
47	16×25	500	1,250
56	12.5×50	605	1,513
56	16×31.5	585	1,463
68	16×35.5	660	1,650
68	18×31.5	660	1,650
82	16×45	760	1,900
82	18×35.5	755	1,888
100	16×50	855	1,924
100	18×40	845	1,901
120	18×45	945	2,126

Part Numbering System

RLD Series	15 μF	±20%	450V	Bulk Package	Flat Type	10 $\phi$ ×25L	Pb-free and PET sleeve
<b>RLD</b>	<b>150</b>	<b>M</b>	<b>2W</b>	<b>BK</b>	<b>F</b>	<b>1025</b>	
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