



RLD Series

Features

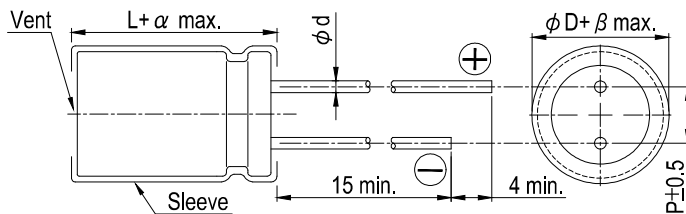
- 105°C, 12,000 hours assured
- 10 φ ~ 18 φ with large permissible ripple current
- Suitable for switching power supplies, UPS, Ballast
- Smaller case size current
- RoHS compliance



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 > 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			
φD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
φd	0.6		0.8	
α	2.0			
β	0.5			



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 120 Hz	100k Hz	$\phi D \times L$	Ripple Current 120 Hz	100k Hz	$\phi D \times L$	Ripple Current 120 Hz	100k Hz	$\phi D \times L$	Ripple Current 120 Hz	100k Hz	$\phi D \times L$	Ripple Current 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 12.5×25	310 355	775 888
47							10×25	315	788	12.5×30 10×45	450 385	1,125 963	10×50 12.5×35	400 480	1,000 1,200
56				10×25	345	863	12.5×25	460	1,150	10×50 12.5×35	440 525	1,100 1,313	12.5×40 16×25	540 515	1,350 1,288
68	10×25	375	938	10×35	425	1,063	10×35 12.5×25	430 510	1,075 1,275	12.5×40 16×25	595 565	1,488 1,413	18×25 12.5×45	580 620	1,450 1,550
82	10×30	445	1,113	12.5×25	565	1,413	10×45 12.5×30	515 590	1,288 1,475	12.5×45 16×31.5	675 670	1,688 1,675	16×35.5	685	1,713
100	10×35	520	1,170	10×45 12.5×30	565 660	1,271 1,485	10×50 12.5×35	585 700	1,316 1,575	16×35.5	755	1,699	16×40 18×35.5	785 790	1,766 1,778
120	10×40 12.5×25	595 680	1,339 1,700	10×50 12.5×35	640 765	1,440 1,721	12.5×40 16×25	795 755	1,789 1,699	16×45 18×31.5	870 840	1,958 1,890	16×50 18×40	890 880	2,003 1,980
150	10×50 12.5×35	715 850	1,609 1,913	12.5×40 16×25	880 840	1,980 1,890	12.5×45 18×25	920 865	2,070 1,946	18×40	985	2,216	18×45	1,000	2,250
180	16×25	920	2,070	16×31.5 18×25	995 950	2,239 2,138	16×35.5	1,015	2,284	18×45	1,090	2,453			
220	16×31.5 18×25	1,100 1,050	2,475 2,363	16×35.5 18×31.5	1,125 1,135	2,531 2,554	16×40 18×31.5	1,160 1,135	2,610 2,554	18×50	1,220	2,745			
270	16×35.5 18×31.5	1,240 1,255	2,790 2,824	16×40 18×35.5	1,280 1,300	2,880 2,925	16×50 18×40	1,330 1,320	2,993 2,970						
330	16×40 18×35.5	1,420 1,435	3,195 3,229	16×50 18×40	1,470 1,510	3,308 3,398	18×45	1,485	3,341						
390	16×45 18×40	1,575 1,590	3,544 3,578	18×45	1,610	3,623	18×50	1,625	3,656						
470	16×50 18×45	1,760 1,770	3,960 3,983												
560	18×50	1,945	4,376												

Rated Volt. (V _{DC}) Contents Cap.(μ F)	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 12.5×25	290 340	725 850
33	12.5×30	400	1,000
47	12.5×40 16×25	525 500	1,313 1,250
56	12.5×50 16×31.5	605 585	1,513 1,463
68	16×35.5 18×31.5	660 660	1,650 1,650
82	16×45 18×35.5	760 755	1,900 1,888
100	16×50 18×40	855 845	1,924 1,901
120	18×45	945	2,126

Part Numbering System

RLD Series 15 μ F $\pm 20\%$ 450V Bulk Package Flat Type 10 $\phi \times 25L$ Pb-free and PET sleeve

RLD **150** **M** **2W** **BK** **F** **1025**

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.

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