



RPL Series

Features

- 105°C, 5,000 hours assured
- 10 φ ~ 18 φ with large permissible ripple current
- Slim type included
- RoHS Compliance

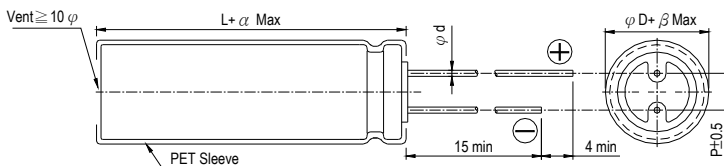


Sleeve & Marking Color: Black & Golden

Specifications

Items	Performance						
Category Temperature Range	400V			420 ~ 450V			
	-40°C ~ +105°C			-25°C ~ +105°C			
Capacitance Tolerance	±20% (at 120Hz, 20°C)						
Leakage Current (at 20°C)	Time		after 5 minutes				
	Leakage Current		CV ≤ 1,000 I = 0.03CV + 15(μA)		CV > 1,000 I = 0.02CV + 25(μA)		
Where, C = rated capacitance in μF V = rated DC working voltage in V							
Tanδ (at 120Hz, 20°C)	Rated Voltage		400	420	450		
	Tanδ (max)		0.24	0.24	0.24		
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.						
	Rated Voltage		400	420	450		
	Impedance	Z(-25°C)/Z(+20°C)	5	6	6		
Ratio		Z(-40°C)/Z(+20°C)	6	-	-		
Endurance	Test Time		5,000 Hrs				
	Capacitance Change		Within ±20% of initial value				
	Tanδ		Less than 200% of specified value				
	Leakage Current		Within specified value				
	* The above Specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 5,000 hours at 105°C.						
Shelf Life Test	Test Time		1,000 Hrs				
	Capacitance Change		With in ±20% of initial value				
	Tanδ		Less than 200% of specified value				
	Leakage Current		Within specified value				
	* The above Specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors before the measurements (Refer to JIS C 5101-4 4.1).						
Ripple Current & Frequency Multipliers	Frequency (Hz)		60	120	500	1k	10k up
	Multipliers		0.80	1.00	1.25	1.40	1.50

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

Dimension & Permissible Ripple Current

V. DC	Cap. (μ F)	10 ϕ				12.5 ϕ			16 ϕ			18 ϕ		
		$\phi D \times L$	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	
400V (2G)	33	10×35	320	480										
	39	10×40	380	570	12.5×30	380	570							
	47	10×45	425	638										
	56	10×50	490	735	12.5×35	475	713							
	68				12.5×40	550	825	16×31.5	530	795				
	82				12.5×45	615	923	16×35.5	605	908				
	100							16×40	740	1,110				
	120							16×45	795	1,193	18×35.5	730	1,095	
	150						16×50	865	1,300	18×45	910	1,365		
420V (2P)	33	10×40	350	525										
	39	10×45	390	585	12.5×30	380	570							
	47	10×50	445	668	12.5×35	410	615							
	56				12.5×40	490	735	16×31.5	475	713				
	68				12.5×45	560	840	16×35.5	550	825				
	82				12.5×50	625	938	16×40	630	945				
	100							16×45	750	1,125	18×35.5	675	1,013	
	120							16×50	865	1,298	18×40	810	1,238	
	150									18×45	825	1,215		
										18×45	950	1,425		
										18×50	950	1,425		
450V (2W)	33	10×45	315	475	12.5×30	350	525							
	39	10×50	360	545	12.5×35	400	600							
	47				12.5×40	425	683	16×31.5	455	683				
	56				12.5×45	500	750	16×35.5	560	750				
	68				12.5×50	540	810	16×40	590	885				
								16×35.5	530	795				
	82							16×45	675	1,013	18×35.5	645	968	
											18×31.5	585	875	
											18×40	740	1,110	
										18×35.5	685	1,025		
										18×45	825	1,238		
										18×40	790	1,185		
	150									18×50	950	1,425		

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

Part Numbering System

RPL series 33 μ F \pm 20% 450V Bulk Package Gas Type 10 ϕ ×45L Pb-free and PET coating case

RPL **330** **M** **2W** **BK** - **1045**

Series Capacitance Capacitance Tolerance Rated Voltage Lead Configuration & Package Rubber Type Case Size Lead Wire and Coating Type

Note: For more details, please refer to "Part Numbering System (Radial Type)" on page 10.