



RPL Series

Features

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

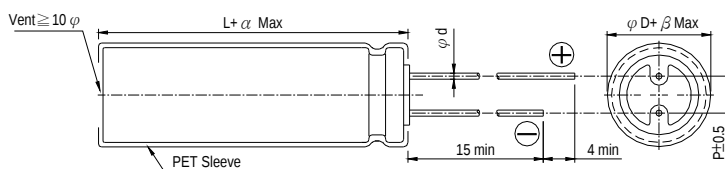


Sleeve & Marking Color: Black & Golden

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						
Dissipation Factor (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 Ratio	Z(-25°C)/Z(+20°C)	5	6	6		
		Z(-40°C)/Z(+20°C)	6	-	-		
Endurance	Test Time		5,000 Hrs				
	Capacitance Change		Within ±20% of initial value				
	Dissipation Factor		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				
	Dissipation Factor		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

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

V. DC	Cap. (μF)	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				12.5×50	690	1,035	16×40	740	1,110			
	120							16×45	795	1,193	18×35.5	730	1,095
420V (2P)	150							16×50	865	1,300	18×45	910	1,365
	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
450V (2W)	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
	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				12.5×50	625	938	16×45	675	1,013	18×35.5	645	968
											18×31.5	585	875
	100							16×50	785	1,178	18×40	740	1,110
											18×35.5	685	1,025
	120										18×45	825	1,238
	150										18×40	790	1,185
											18×50	950	1,425

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