

RGL Series

Features

- 105°C, for general purposes
- 8 ϕ ~ 18 ϕ with large permissible ripple current
- Slim type included
- RoHS Compliance

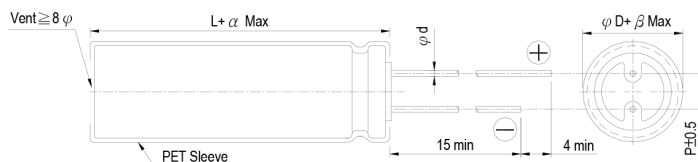


Sleeve & Marking Color: Black & Golden

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 Ratio	Z(-25°C)/Z(+20°C)	5	6	6	
		Z(-40°C)/Z(+20°C)	6	-	-	
Endurance	Test Time		2,000 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 2,000 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	0.8	1.00	1.25	1.45	1.50

Diagram of Dimensions



Lead Spacing and Diameter

Unit: mm

ϕD	8	10	12.5	16	18
P	3.5	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 & Permissible Ripple Current

V. DC	Cap. (μF)	8 ϕ				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		$\phi D \times L$		Ripple Current	
400V (2G)	15	8×30	190	285																	
	22	8×35	250	375																	
	27	8×40	300	450	10×30	245	370														
	33	8×45	350	525	10×35	295	445														
	39	8×50	390	585	10×40	345	515														
	47				10×45	400	600														
	56				10×50	450	675	12.5×30	470	705											
	68							12.5×35	540	810											
	82							12.5×40	620	930											
	100																				
	120													16×35.5	800	1,200					
420V (2P)	150													16×40	840	1,260					
	180													16×45	940	1,410					
	220													16×50	1,050	1,575	18×40	1,060	1,590		
																	18×45	1,200	1,800		
	15	8×30	195	293																	
	22	8×35	255	383																	
	27	8×45	320	480	10×30	245	370														
	33	8×50	370	555	10×35	295	445														
	39				10×40	345	515														
	47				10×45	400	600														
	56				10×50	450	675	12.5×30	470	705											
	68							12.5×35	540	810											
450V (2W)	82							12.5×45	630	945											
	100							12.5×50	730	1,095	16×35.5	730	1,095								
	120										16×40	840	1,260								
	150										16×45	940	1,410	18×35.5	920	1,380					
	180										16×50	1,050	1,575	18×40	1,060	1,590					
	220													18×50	1,220	1,830					
	15	8×30	195	293																	
	22	8×40	270	405	10×30	225	330														
	27	8×45	320	480	10×35	265	400														
	33	8×50	370	555	10×40	315	475														
	39				10×45	360	545	12.5×30	400	600											
	47				10×50	420	625	12.5×35	460	690											
	56							12.5×40	520	780											
	68							12.5×45	580	870											
	82							12.5×50	660	990	16×35.5	660	990								
	100										16×40	750	1,125								
	120										16×45	840	1,260	18×35.5	820	1,230					
	150										16×50	980	1,470	18×45	995	1,490					
	180													18×50	1,140	1,710					

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

Part Numbering System

RGL series	22 μF	±20%	450V	Bulk Package	Gas Type	10 ϕ ×30L	Pb-free and PET coating case
RGL	220	M	2W	BK	-	1030	
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.