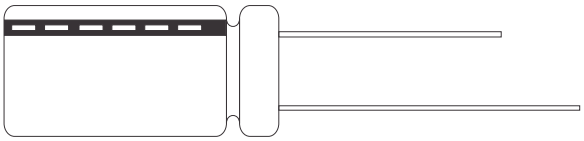
ALUMINUM ELECTROLYTIC CAPACITORS
RGL Series: Slim Type 105°C

RoHS

FEATURES



- Long life, 105°C, 2,000 hours assured
- Smaller size with large permissible ripple current
- Slim Type

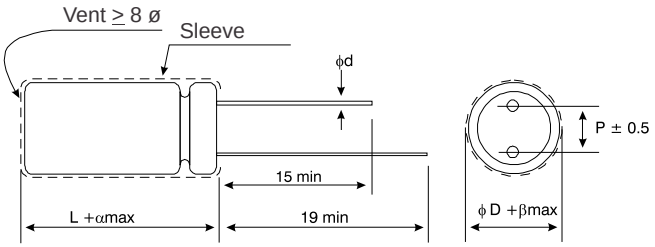
SPECIFICATIONS

Items	Performance						
Life	at 105 °C 2000 Hours						
Operating Temp.	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 (Tan δ at 120Hz, 20°C)	Rated Voltage	400	420	450			
	Tan δ (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	--	--	
Load Life Test	Test Time	2,000 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 2,000 hrs at 105 °C.						
Shelf Life Test	Test Time	1,000 hours					
	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 exposing them for 1,000 hrs 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	Freq. (Hz)	60	120	500	1k	10k up	
	Multipliers	0.80	1.00	1.25	1.45	1.50	
Other Standards	JIS C 5101-4						

DIMENSIONS

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	
a	2.0				
b	0.5				



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DIMENSIONS & PERMISSIBLE RIPPLE CURRENT

Dimension: j D x L(mm)
Ripple Current: mA/rms at 100Hz, 105°C

V. DC	Cap. (μF)	8φ			10φ			12.5φ			16φ			18φ		
		φD x L	Ripple Current		φ D x L	Ripple Current		φ D x L	Ripple Current		φ D x L	Ripple Current		φ D x L	Ripple Current	
			120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz
400V (2G)	15	8 x 30	190	285												
	22	8 x 35	250	375												
	27	8 x 40	300	450	10 x 30	245	370									
	33	8 x 45	350	525	10 x 35	295	445									
	39	8 x 50	390	585	10 x 40	345	515									
	47				10 x 45	400	600									
	56				10 x 50	450	675	12.5 x 30	470	705						
	68							12.5 x 35	540	810						
	82							12.5 x 40	620	930						
	100															
	120										16 x 35.5 16 x 40	800 840	1,200 1,260			
	150										16 x 45	940	1,410			
	180										16 x 50	1050	1,575	18 x 40	1,060	1,590
	220													18 x 45	1,200	1,800
420V (2P)	15	8 x 30	195	293												
	22	8 x 35	255	383												
	27	8 x 45	320	480	10 x 30	245	370									
	33	8 x 50	370	555	10 x 35	295	445									
	39				10 x 40	345	515									
	47				10 x 45	400	600									
	56				10 x 50	450	675	12.5 x 30	470	705						
	68							12.5 x 35	540	810						
	82							12.5 x 45	630	945						
	100							12.5 x 50	730	1,095	16 x 35.5	730	1,095			
	120										16 x 40	840	1,260			
	150										16 x 45	940	1,410	18 x 35.5	920	1,380
	180										16 x 50	1,050	1,575	18 x 40	1,060	1,590
	220													18 x 50	1,220	1,830
450V (2W)	15	8 x 30	195	293												
	22	8 x 40	270	405	10 x 30	225	330									
	27	8 x 45	320	480	10 x 35	265	400									
	33	8 x 50	370	555	10 x 40	315	475									
	39				10 x 45	360	545									
	47				10 x 50	420	625	12.5 x 30	430	645						
	56							12.5 x 35	490	735						
	68							12.5 x 40	560	840						
	82							12.5 x 45	630	945						
	100							12.5 x 50	730	1,095	16 x 35.5	730	1,095			
	120										16 x 45	840	1,260	18 x 35.5	820	1,230
	150										16 x 50	980	1,470	18 x 40	970	1,455
														18 x 45	995	1,490
	180													18 x 45	1,090	1,635
														18 x 50	1,140	1,710

PART NUMBER EXAMPLE RGL 560 M 2G BK 125 300

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