

ALUMINUM ELECTROLYTIC CAPACITOR (CD82 RG)

RG FEATURES

- 105°C high temperature, high performance middle and high voltage type.
- $\Phi D \geq 8\text{mm}$ with top safety vent construction.
- Ideally suited for automobile electronic equipments, electronic ballast etc.

SPECIFICATIONS

Item	Performance Characteristics							
Rated Working Voltage Range	160V.DC~400V.DC							
Operating Temperature Range	-25 °C~+105 °C							
Nominal Capacitance Range	1 μ F~220 μ F							
Capacitance Tolerance	$\pm 20\%$ (M,+25°C,120Hz)							
Leakage Current	C: Nominal Capacitance in μ F:V: Rated Working Voltage in V							
	Voltage(V)		160~400					
	After application of rated voltage 2 minutes: $I \leq 0.04CV$ +100 25°C							
Dissipation Factor (tan δ)	Rated Working Voltage	160	200	250	350	400		
	tan δ (MAX)(25°C ,120Hz)	0.15	0.15	0.15	0.20	0.20		
Temperature Stability	Rated Working Voltage(V)			160	200	250	350	400
	Impedance Ratio(120Hz)Z-25 °C /Z+20°C			3		4		
Load Life	After application of rated working voltage and maximum permissible current specified at +105°C for 2000 hours, capacitors meet the characteristics requirements at +25°C listed below							
	Leakage Current		Less than the initial specified value					
	tan δ		Less than 200% the initial specified value					
	Capacitance Change		Within $\pm 20\%$ of the initial measured value					
Shelf Life	After leaving capacitor under no load at +105°C for 1000 hours, Capacitors meet the characteristics listed above.							

MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

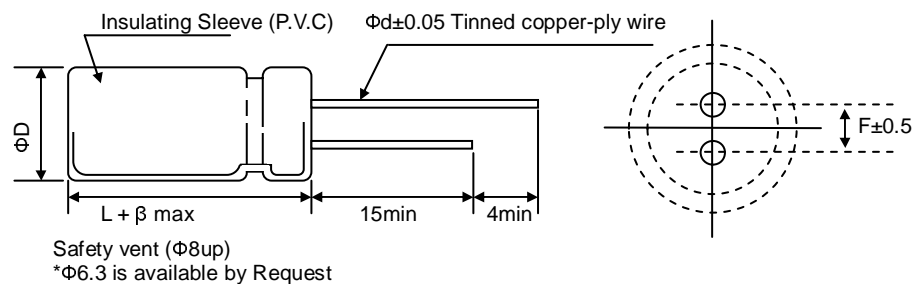
Freq(Hz) Cap(μ F)	50 (60)	100 (120)	1K	10K	100K
1-220	0.8	1	1.3	1.4	1.6

Temperature coefficient

Ambient Temperature (°C)	+105	+85	+70
Factor	1.0	1.7	2.1

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CASE SIZE TABLE



β	0.5		1.0			
ΦD	6.3	8	10	12 13	16	18
$F \pm 0.5$	2.5	3.5	5		7.5	
$\Phi d \pm 0.1$	0.5		0.6		0.8	
L	11	12.16	14.17.20	20.25	25.30	30.35.40
α	1.0	L<17:1.0; L: 17:2.0				

DIMENSIONS, RATED VOLTAGE RANGE AND CAPACITANCE

V uF	160		200		250		350		400	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
1	6.6X11	16	6.3X11	16	6.3X11	17	8X12	18	8X12	18
1.5	6.3X11	20	6.3X11	20	6.3X11	24	8X12	24	8X12	23
2.2	6.3X11	25	6.3X11	25	8X12	30	8X16 10X14	36	8X16 10X14	31
3.3	8X12	38	8X12	21	8X12	43	10X17	45	10X17	41
4.7	8X12	38	8X16 10X14	26	10X17	53	10X17	55	10X20	55
6.8	8X16 10X14	42	10X17	32	10X17	69	10X20	73	13X20	65
10	8X16 10X14	48	10X17	43	10X20	90	13X20	95	13X20	85
15	10X20	54	10X20	52	13X20	120	13X25	120	13X25	136
22	10X20	68	10X20	71	13X20	150	16X25	175	16X25	170
33	13X20	86	13X20	100	13X25	200	16X30	200	16X30	220
47	13X20	115	13X25	115	16X25	240	18X30	260	18X30	270
68	16X25	140	16X25	140	16X30	320				
100	16X25	170	16X30	180	18X30	400				
150	18X30	208	18X35	220						
220	18X40	270	18X40	260						

(1) Case Size DxL(mm)

(2) Max allowable ripple current (marns+105°C,120Hz)