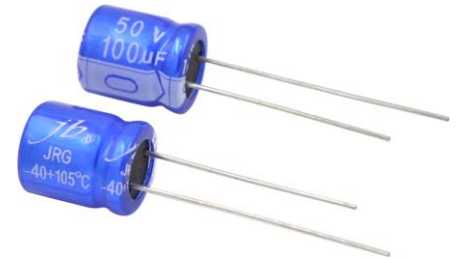


Radial Aluminum Electrolytic Capacitor – JRG

EXTREMELY LOW IMPEDANCE, LONG LIFE

- 4000~10000 hours load life at 105°C
- Suitable for long life applications
- Comply with the RoHS directive



SPECIFICATIONS

Operating Temperature Range (°C)	-40°C ~ +105°C						
Voltage Range (V)	6.3 ~ 63V						
Capacitance Range (µF)	0.47 ~ 18000 µF						
Capacitance Tolerance (20°C, 120Hz)	±20% at 120Hz, 20°C						
Leakage Current (µA)	Leakage current = 0.01CV or 3µA, whichever is greater (after 2 minutes application of rated voltage)						
Dissipation Factor (tan δ)	Measurement frequency : 120Hz, Temperature : 20°C						

Rated Voltage (V)	6.3	10	16	25	35	50	63
Tan δ (max)	0.22	0.19	0.16	0.14	0.12	0.10	0.09
Rated Voltage (V)	160	200	250	350	400	450	
Tan δ (max)	0.2	0.2	0.2	0.24	0.24	0.24	

Stability at Low Temperature

Measurement frequency :120Hz

Rated Voltage (V)		6.3	10	16	25 - 63
Impedance Ratio	Z(-25°C) / Z (20 °C)	4	3	2	2
	Z(-40°C) / Z(20°C)	8	6	4	3
Rated Voltage (V)		160	200	250	400 450
Impedance Ratio	Z(-25°C) / Z (20 °C)	3	3	4	6 7
	Z(-40°C) / Z(20°C)	6	6	6	7 9

Load Life

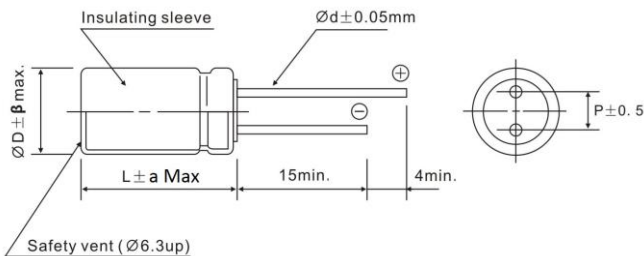
The characteristics listed below shall be satisfied when the capacitors are restored to 20°C after subject to DC voltage with the rated ripple current is applied(the peak voltage shall not exceed the rated voltage)for the specified period of time at 105°C

Size (mm)	Life time(hours)		
	6.3~10V	16~63V	160~450V
Ø5, (Ø5x15)	4000	5000	--
Ø6.3	4000	5000	3000
Ø8,Ø10	6000	7000	8000
ØD≥13	8000	10000	10000
Capacitance Change	Within±25% of initial measured value		
Dissipation Factor	≤200% of initial specified value		
Leakage Current	≤initial specified value		

Shelf life

After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for load life characteristics listed above.

DRAWING (Unit: mm)



ØD	5	6.3	8 (L≤11.5)	8 (L≥16)	10	13	16	18
P	2.0	2.5	3.5		5.0		7.5	
Ød	0.5		0.5/0.6		0.7/0.8			

a Max	D<18	D=18	
	+1.5 -1.0	L<35.5	L≥35.5
		+1.5 -1.0	+2.0 -1.0

β Max	D<18	0.5
	D≥18	1.0

FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency(Hz)		120Hz	300Hz	1KHz	10KHz~
Coefficient	<33µF	0.42	0.52	0.70	0.90
	39~270µF	0.50	0.55	0.73	0.92
	330~680µF	0.55	0.60	0.77	0.94
	820~1800µF	0.60	0.70	0.80	0.96
	2200~18000µF	0.70	0.77	0.85	0.98

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Radial Aluminum Electrolytic Capacitor – JRG

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT & IMPEDANCE

wv μF		6.3 (0J)		10 (1A)		16 (1C)		25 (1E)	
		Case Size ØDxL (mm)	Ripple Current (mA rms, 105°C 100KHz)	Case Size ØDxL (mm)	Ripple Current (mA rms, 105°C 100KHz)	Case Size ØDxL (mm)	Ripple Current (mA rms, 105°C 100KHz)	Case Size ØDxL (mm)	Ripple Current (mA rms, 105°C 100KHz)
47	470							5x11	210
56	560					5x11	210		
100	101			5x11	210			6.3x11.5	340
150	151	5x11	210			6.3x11.5	340		
220	221			6.3x11.5	340	8x11.5	430	8x11.5	640
330	331	6.3x11.5	340			8x11.5	640	8x16	840
470	471			8x11.5	640	8x16	840	10x16	1210
680	681	8x11.5	640	8x16	840	10x16	1210	10x20	1400
820	821	10x12	865					10x25	1650
1000	102	8x16	840	10x16	1210	10x20	1400	13x20	1900
1200	122	10x16	1210	10x20	1400	10x20	1650	13x25	2210
1500	152	13x20	1400	13x20	1450	13x20	1900	13x25	2230
1800	182	13x20	1450						
2200	222	13x20	1650	13x20	1900	13x25	2230	13x25	2880

wv μF		35V (1V)		50V (1H)		63V	
		Case Size ØDxL (mm)	Ripple Current (mA rms, 105°C 100KHz)	Case Size ØDxL (mm)	Ripple Current (mA rms, 105°C 100KHz)	Case Size ØDxL (mm)	Ripple Current (mA rms, 105°C 100KHz)
0.47	R47			5x11	17		
1	010			5x11	30		
2.2	2R2			5x11	43		
3.3	3R3			5x11	53		
4.7	4R7			5x11	95		
10	100			6.3x11.5	130		
15	150					6.3x11.5	165
22	220			6.3x11.5	180		
33	330	5x11	210			6.3x11.5	265
47	470	6.3x11.5	340	8x11.5	295		
56	560	6.3x11.5	340			8x11.5	500
82	820					8x16	665
100	101			10x12	555		
120	121			10x16	730	10x16	950
150	151	8x11.5	640	10x16	760		
180	181			10x16	910	10x20	1150
220	221	10x12	865	10x20	1050	10x25	1350
330	331	10x16	1210	10x25	1440		
470	471	10x20	1400	13x20	1660	16x25	2000
680	681	13x20	1900	13x30	2310	16x31	2600
820	821			13x35	2510	16x31	2850
1000	102	16x25	2230	13x40	2920	16x35	2900
1200	122	13x30	2650	16x31	3010	18x31	3300
1500	152	13x35	2880	16x35	3150	18x35	3400
2200	222	18x31	3140	18x35	3680		

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