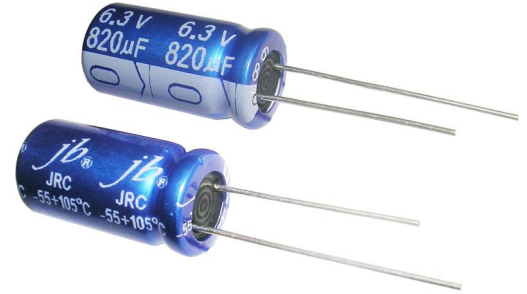


# Radial Aluminum Electrolytic Capacitor – JRC

## FEATURES

- Load life of 2000 hours at 105°C
- Switch power supply
- High Frequency
- Low Impedance

## SPECIFICATIONS



Operating Temperature Range (°C)	-55°C ~ +105°C							
Rated Voltage Range (V)	6.3 ~ 100							
Capacitance Range (µF)	0.47 ~ 15000							
Capacitance Tolerance (25°C, 120Hz)	±20%							
Leakage Current (µA)	1=0.02CV or 3 whichever is greater (at 25°C, after 2 minutes), C: Nominal Capacitance (µF) V: Rated Voltage (V)							

Dissipation Factor (25°C, 120Hz)	Rated Voltage	6.3	10	16	25	35	50	63	100
	Tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08

Add 0.02 per 1000µF or more.

Characteristics of Low Temperature Impedance at -10°C, 100KHz<200% of initial specified value at +20°C, 100KHz (Impedance ratio at 100KHz)  
 Load Life (+105°C) After life test at condition stated in the table below, the capacitors shall meet the following requirement.

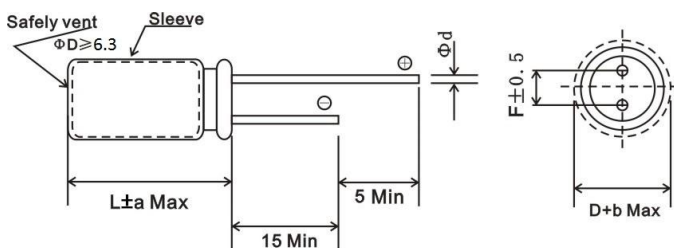
Case Dia	Test time (hrs)
ΦD≤8	1000
ΦD>8	2000

Ripple current applied

Leakage Current	Not more than the specified value.
Capacitance Change	Within±20% of the initial value
Dissipation Factor	Not more than 200% of the specified value.

Shelf Life (+105°C) 1000 hours. No voltage applied. After test:U<sub>R</sub> to be applied for 30 minutes, 24 to 48 hours before measurement

## DIMENSIONS (mm)



∅D	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0		7.5	
∅d±0.05	0.5	0.6			0.8		

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

b Max	D<18	0.5
	D≥18	1.0

## MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Freq(Hz) Cap(µF)	120	1K	10K	100K
0.47~4.7	0.40	0.68	0.78	1.0
5.6~47	0.50	0.76	0.87	1.0
56~270	0.70	0.85	0.90	1.0
330~1000	0.80	0.93	0.98	1.0
1200~15000	0.90	0.95	1.0	1.0

Temperature coefficient

Temperature(°C)	+70	+85	+105
Factor	1.96	1.68	1.0

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### STANDARD RATINGS

V \ μF	6.3V	10V	16V	25V	35V	50V	63V	100V
1	--	--	--	--	--	5x11	--	
2.2	--	--	--	--	--	5x11	--	
3.3	--	--	--	--	--	5x11	--	
4.7	--	--	--	--	5x11	5x11	--	
6.8	--	--	--	--	5x11	5x11	--	
10	--	--	--	--	5x11	5x12	5x12	6x11
15	--	--	--	--	5x11	5x12	--	
18	--	--	--	--	5x11	5x12	--	
22	--	--	--	5x11	5x11	6x11	6x11	8x12
27	--	--	--	--	5x11	6x11	--	
33	--	--	--	--	6x11	6x11	6x11	10x13
39	--	--	--	--	6x11	6x11	--	
47	--	--	5x11	5x11	6x11	6x12	8x12	10x17
56	--	--	5x11	5x11	6x11	6x12	--	
68	--	--	5x12	5x12	6x11	8x12	10x13	10x21
82	--	--	--	6.3x11	6.3x11	8x12	--	
100	--	5x11	6x11	6x11	8x12	8x12	10x17	13x20
120	--	5x11	6x11	6.3x11	8x12	8x16	--	
150	5x11	5x11	6x11	8x12	8x12	8x19	--	
180	5x11	6.3x11	6x11	8x12	8x14	8x19	--	
220	6x11	6x11	6x11	8x12	10x17	10x17	10x21	16x26
270	6x11	6.3x11	8x12	8x14	10x17	10x21	--	
330	6x11	8x12	8x12	10x12	10x17	10x21	13x20	16x26
390	6x12	8x12	--	8x19	10x17	13x20	--	
470	6x12	8x12	8x12	10x17	10x17	13x20 13x21	13x20	16x31
560	8x12	8x12	8x16	8x19	10x25	13x21	--	
680	8x12	8x12	8x16	10x17	13x20	13x26	16x26	
820	8x14	8x16	8x19	10x25	13x20	13x25	--	
1000	8x16	8x16	10x17	10x21	13x25	13x25	16x26	
1200	8x16	10x17	10x21	13x20	16x20	13x30	16x30	
1500	8x16	10x21	13x20	13x20	16x20	16x26	--	
1800	10x17	10x25	13x20	13x26	16x26	16x32	--	
2200	10x17	13x20	13x20	13x26	16x26	16x35	18x40	
2700	10x21	13x21	16x26	13x26	16x35	18x40	--	
3300	13x20	13x20	13x30	16x26	16x35	18x40	--	
3900	13x25	--	16x26	16x26	18x40	--	--	
4700	13x25	13x26	16x26	16x26	--	--	--	
5600	16x26	16x30	16x35	--	--	--	--	
6800	16x26	16x30	18x25	--	--	--	--	
8200	16x32	16x35	--	--	--	--	--	
10000	16x35	16x40	--	--	--	--	--	

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