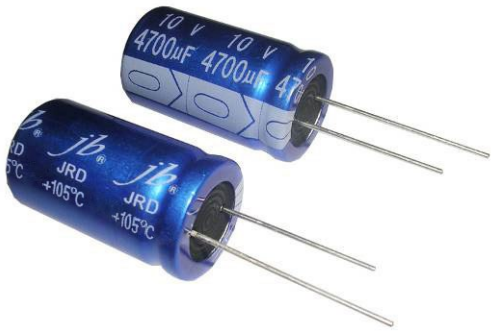
Radial Aluminum Electrolytic Capacitor – JRD

FEATURES



- At 55℃(Φ5~Φ6: 2000hours Φ8~Φ10: 3000hours) Ultra lower impedance
- Low Impedance, Long Life
- Load life of 5000 hours at 105℃
- Switch power supply
- Excellent ripple current capability

SPECIFICATIONS

Operating Temperature Range (℃)	-40℃ ~ +105℃
Rated Voltage Range (V)	6.3 ~ 100
Capacitance Range (μF)	0.47 ~ 15000
Capacitance Tolerance(25℃, 120Hz)	±20%
Leakage Current (μA)	I≤0.02CV or 3uA, whichever is greater (after 2 minutes at 25℃) Where, C: Nominal Capacitance (μF) V: Rated Voltage (V)

Dissipation Factor (25℃, 120Hz)

Wv (V)	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

0.02 is added to each 1000μF increase over 1000μF

Temperature Stability (120Hz)

Rated Voltage	6.3	10	16	25	35	50	63	100
Z-40℃/Z+20℃	3	3	3	3	3	3	3	3

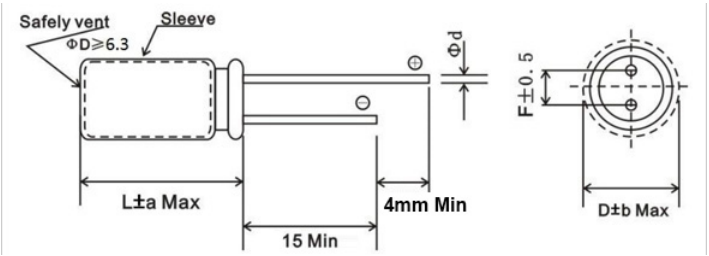
Load Life (+105℃)

Time	5000hous (Φ5~6: 2000hours Φ8~10: 3000hours)
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℃) After leaving capacitors under no load at 105℃ for 1000 hours, they meet the specified value for load life Characteristics listed above.

*after test: U_R to be applied for 30 minutes, 24 to 48 hours before measurement.

DIMENSIONS (mm)



ØD	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0		7.5	
Ød±0.05	0.5	0.5	0.5	0.6		0.8	

a Max	D<18	D=18	
		L<35.5	L≥35.5
	+1.5 -1.0	+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	+70	+85	+105
Factor	1.96	1.68	1.0

Dia	Life Time
5~6.3	2000h
8~10	3000h
≥13	5000h

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

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Typical Curves

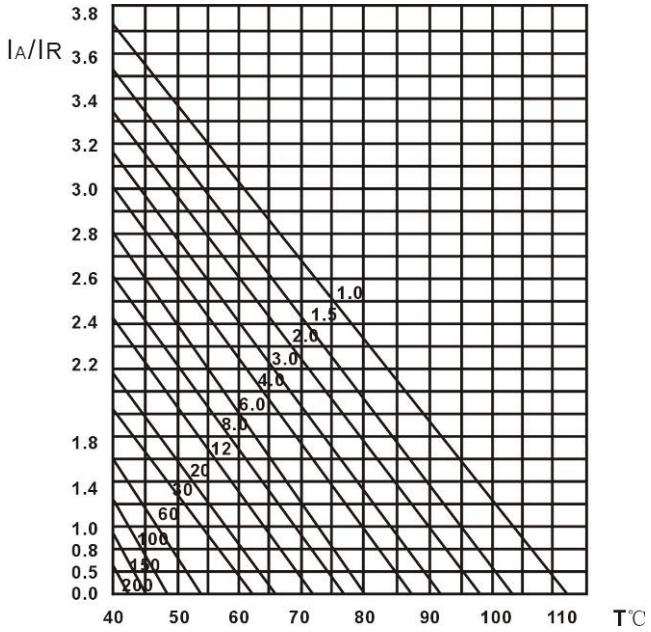


Fig.4 Multiplier of useful life as a function of ambient Temperature and ripple current load

I_A=actual ripple current 120KHz

I_R=rated ripple current at 100KHz, 105℃

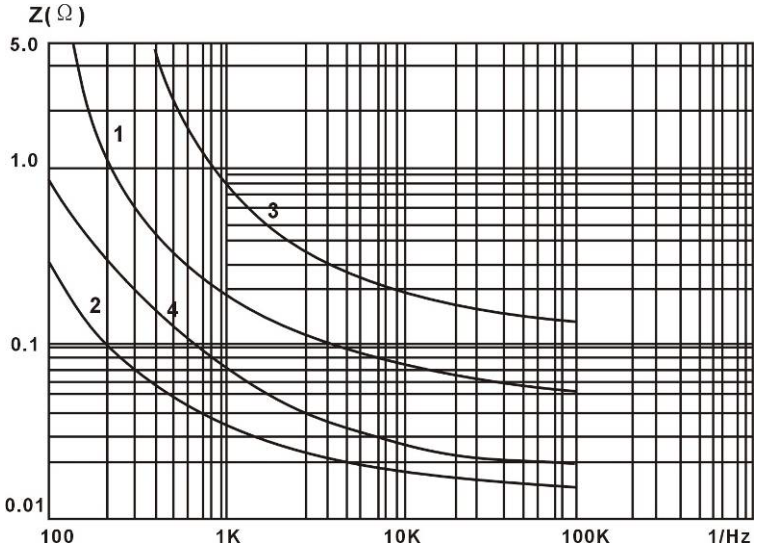


Fig.3 Typical impedance as a function of frequency

1.	10V1000μF	10x20
2.	10V10000μF	18x35.5
3.	63V100μF	10x20
4.	63V1000μF	18x35.5

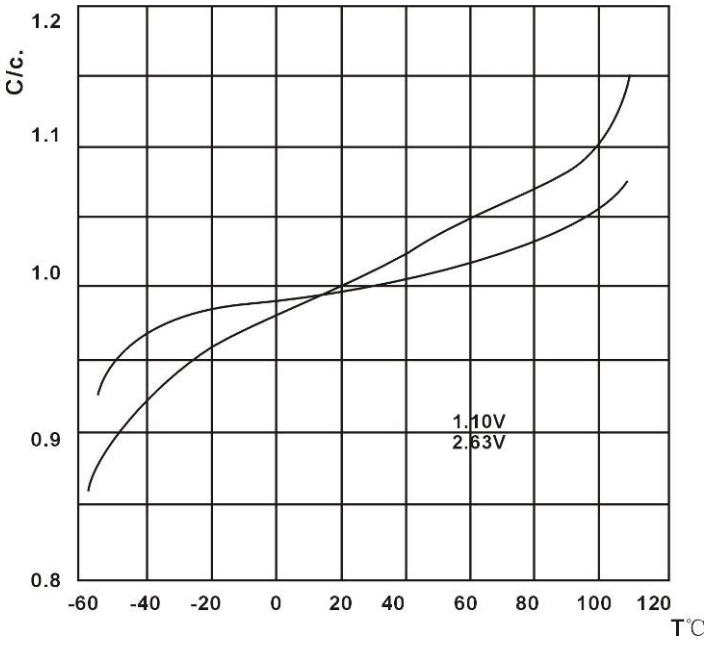


Fig. 1 Typical multiplier of capacitance as a function of ambient temperature

C_o =capacitance at 25℃, 120Hz

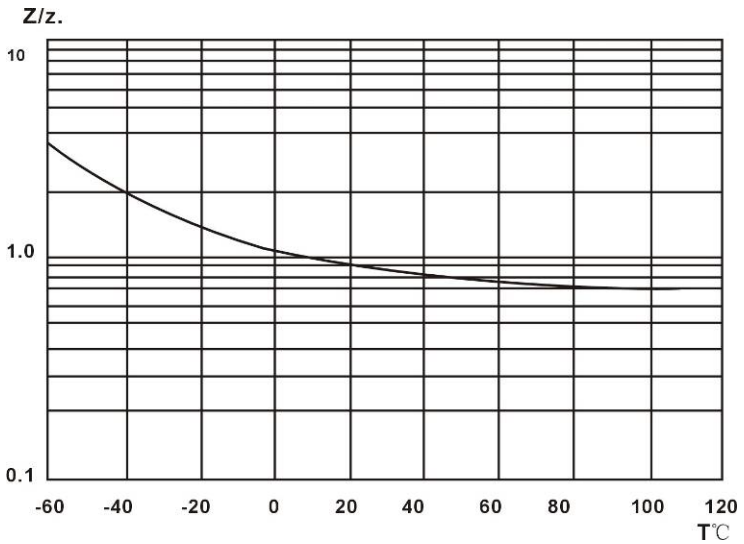


Fig. 2 Typical multiplier of impedance as a function of ambient temperature

Z_o –typical impedance to 25℃, 100KHz

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