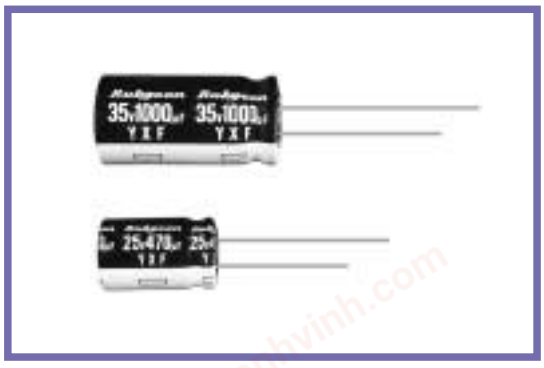
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Rubycon MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS YXF

YXF SERIES

105℃ Long Life. Low impedance.
（Rated Voltage 6.3～250V.DC）



◆FEATURES

- Load Life : 105℃ 2000～10000hours.
- Low impedance at 100kHz with selected materials.

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−40～＋105℃
Rated Voltage Range	6.3～250V.DC
Capacitance Tolerance	±20%（20℃，120Hz）
Leakage Current(MAX)	6.3wv～100wv I=0.01CV or 3 μA whichever is greater. (After 2 minutes) 160wv～250wv I=0.04CV ＋ 100 μA (After 1 minute application of rated voltage) I=0.02CV ＋ 25 μA (After 5 minutes application of rated voltage) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)
Dissipation Factor(MAX)	（20℃，120Hz） When rated capacitance is over 1000 μF, tan δ shall be added 0.02 to the listed value with increase of every 1000 μF.
Endurance	After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	（120Hz）

Dissipation Factor(MAX)

Rated Voltage(V)	6.3	10	16	25	35	50	63	100	160	200	250
tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.12	0.12	0.12

Endurance

Capacitance Change	Within ±25% of the initial value.(160wv to 250wv:±20%)
Dissipation Factor	Not more than 200% of the specified value.
Leakage Current	Not more than the specified value.

Case Dia	Life Time		
	6.3～10WV	16～100WV	160～250WV
φD≦6.3	4000	5000	—
φD=8	6000	7000	—
φD=10	6000	7000	2000
φD≧12.5	8000	10000	2000

Low Temperature Stability Impedance Ratio(MAX)

Rated Voltage(V)	6.3	10	16	25	35	50	63	100	160	200	250
Z(−25℃)/Z(20℃)	4	3	2	2	2	2	2	2	3	3	3
Z(−40℃)/Z(20℃)	8	6	4	3	3	3	3	3	4	4	4

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

（6.3wv～100wv）

Frequency (Hz)		120	1k	10k	100k≦
Coefficient	0.47～10 μF	0.42	0.60	0.80	1.00
	22～33 μF	0.55	0.75	0.90	1.00
	47～330 μF	0.70	0.85	0.95	1.00
	470～1000 μF	0.75	0.90	0.98	1.00
	2200～15000 μF	0.80	0.95	1.00	1.00

（160wv～250wv）

Frequency (Hz)	60(50)	120	1k	10k	100k≦
Coefficient	0.40	0.50	0.75	0.90	1.00

◆PART NUMBER

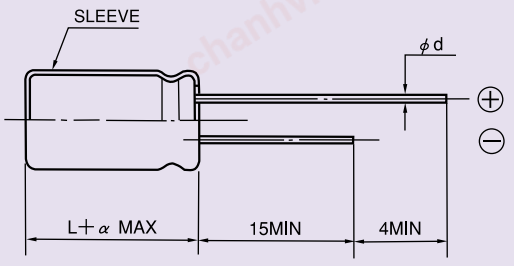
□□□	YXF	□□□□□	□	□□□	□□	D×L
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

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◆DIMENSIONS

(mm)



φD	5	6.3	8	10	12.5	16	18
φd	0.5		0.6			0.8	
F	2.0	2.5	3.5	5.0		7.5	
α	L≦16 : α=1.5 L≧20 : α=2.0						

◆STANDARD SIZE

Rated voltage 6.3V(0J)				
Rated capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (Ω MAX)	
			20℃, 100kHz	−10℃, 100kHz
100	5×11	150	0.90	3.6
220	6.3×11	250	0.40	1.6
330	6.3×11	250	0.40	1.6
470	8×11.5	400	0.25	1.0
1000	10×12.5	580	0.16	0.65
2200	12.5×20	1300	0.062	0.21
3300	12.5×20	1300	0.062	0.21
4700	16×25	1850	0.034	0.096
6800	16×25	1850	0.034	0.096
10000	16×31.5	2000	0.029	0.087
15000	18×35.5	2200	0.025	0.058

Rated voltage 10V(1A)				
Rated capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (Ω MAX)	
			20℃, 100kHz	−10℃, 100kHz
100	5×11	150	0.90	3.6
220	6.3×11	250	0.40	1.6
330	8×11.5	400	0.25	1.0
470	8×11.5	400	0.25	1.0
1000	10×16	770	0.12	0.46
2200	12.5×20	1300	0.062	0.21
3300	12.5×25	1650	0.048	0.16
4700	16×25	1850	0.034	0.096
6800	16×31.5	2000	0.029	0.087
10000	18×35.5	2200	0.025	0.058

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Rated voltage 16V(1C)				
Rated capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (Ω MAX)	
			20℃, 100kHz	−10℃, 100kHz
47	5×11	150	0.90	3.6
100	6.3×11	250	0.40	1.6
220	8×11.5	400	0.25	1.0
330	8×11.5	400	0.25	1.0
470	10×12.5	580	0.16	0.65
1000	10×20	1050	0.078	0.30
2200	12.5×25	1650	0.048	0.16
3300	16×25	1850	0.034	0.096
4700	16×31.5	2000	0.029	0.087
6800	18×35.5	2200	0.025	0.058

Rated voltage 25V(1E)				
Rated capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (Ω MAX)	
			20℃, 100kHz	−10℃, 100kHz
33	5×11	150	0.90	3.6
47	5×11	150	0.90	3.6
100	6.3×11	250	0.40	1.6
220	8×11.5	400	0.25	1.0
330	10×12.5	580	0.16	0.65
470	10×16	770	0.12	0.46
1000	12.5×20	1300	0.062	0.21
2200	16×25	1850	0.034	0.096
3300	16×31.5	2000	0.029	0.087
4700	18×35.5	2200	0.025	0.058

Rated voltage 35V(1V)				
Rated capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (Ω MAX)	
			20℃, 100kHz	−10℃, 100kHz
33	5×11	150	0.90	3.6
47	6.3×11	250	0.40	1.6
100	8×11.5	400	0.25	1.0
220	10×12.5	580	0.16	0.65
330	10×16	770	0.12	0.46
470	10×20	1050	0.078	0.30
1000	12.5×25	1650	0.048	0.16
2200	16×31.5	2000	0.029	0.087
3300	18×35.5	2200	0.025	0.058

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Rated voltage 50V(1H)				
Rated capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (Ω MAX)	
			20℃, 100kHz	−10℃, 100kHz
0.47	5×11	17	5.5	12.0
1	5×11	30	4.0	8.0
2.2	5×11	43	2.5	6.0
3.3	5×11	53	2.2	5.6
4.7	5×11	88	1.9	5.0
10	5×11	100	1.5	4.0
22	5×11	150	0.90	3.6
33	6.3×11	250	0.40	1.6
47	6.3×11	250	0.40	1.6
100	8×11.5	400	0.25	1.0
220	10×16	770	0.12	0.46
330	10×20	1050	0.078	0.30
470	12.5×20	1300	0.062	0.21
1000	16×25	1850	0.034	0.096
2200	18×35.5	2200	0.025	0.058

Rated voltage 63V(1J)				
Rated capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (Ω MAX)	
			20℃, 100kHz	−10℃, 100kHz
10	5×11	87	2.3	9.3
22	6.3×11	140	1.3	5.2
33	6.3×11	140	1.2	5.0
47	8×11.5	210	0.63	2.8
100	10×12.5	300	0.43	1.8
220	10×20	520	0.21	0.84
330	12.5×20	660	0.16	0.64
470	12.5×25	750	0.12	0.45
1000	16×31.5	1390	0.054	0.20

Rated voltage 100V(2A)				
Rated capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (Ω MAX)	
			20℃, 100kHz	−10℃, 100kHz
0.47	5×11	15	6.0	17.0
1	5×11	20	4.5	15.0
2.2	5×11	30	3.0	13.0
3.3	5×11	40	2.7	11.0
4.7	5×11	65	2.5	10.0
10	6.3×11	140	1.2	5.0
22	8×11.5	160	0.63	2.8
33	10×12.5	230	0.43	1.8
47	10×16	290	0.31	1.5
100	12.5×20	430	0.16	0.64
220	16×25	900	0.073	0.27
330	16×25	900	0.073	0.27

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Rated voltage 160V(2C)			
Rated capacitance (μF)	Size φD×L (mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (Ω MAX) 20℃, 100kHz
22	10×20	350	1.0
33	12.5×20	450	0.70
47	12.5×25	600	0.45
68	12.5×25	600	0.45
100	16×25	950	0.24
150	16×31.5	1200	0.17
220	18×35.5	1400	0.14

Rated voltage 200V(2D)			
Rated capacitance (μF)	Size φD×L (mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (Ω MAX) 20℃, 100kHz
22	10×20	350	1.0
33	12.5×25	550	0.55
47	12.5×25	600	0.44
68	16×25	950	0.24
100	16×31.5	1200	0.17
150	16×35.5	1280	0.16
220	18×35.5	1400	0.14

Rated voltage 250V(2E)			
Rated capacitance (μF)	Size φD×L (mm)	Rated ripple current (mA r.m.s./105℃, 100kHz)	Impedance (Ω MAX) 20℃, 100kHz
22	10×20	300	1.4
33	12.5×25	450	0.70
47	16×25	850	0.31
68	16×31.5	1050	0.22
100	18×35.5	1200	0.18

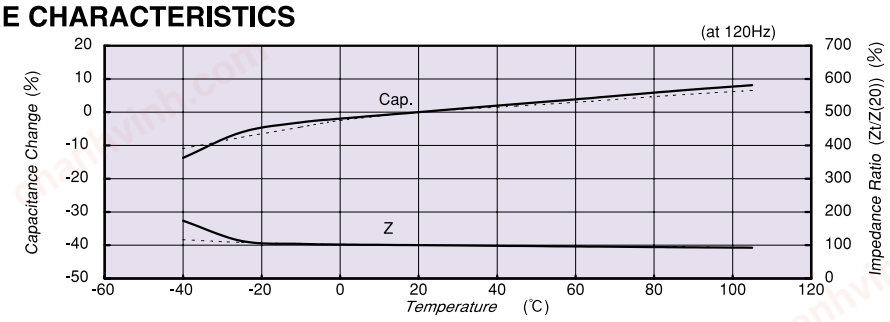
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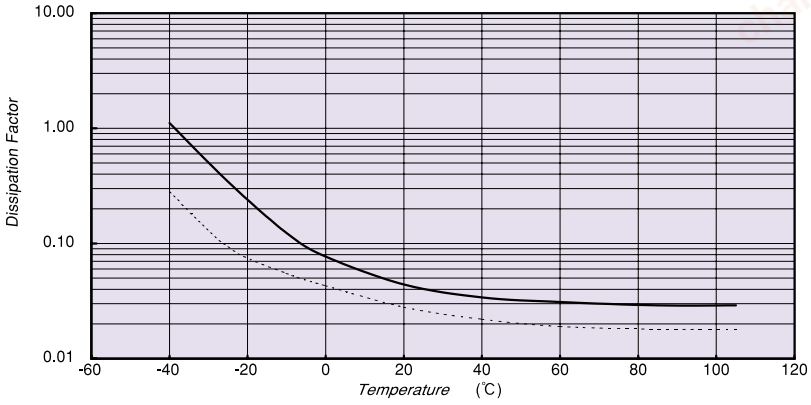
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◆CHARACTERISTIC DATA

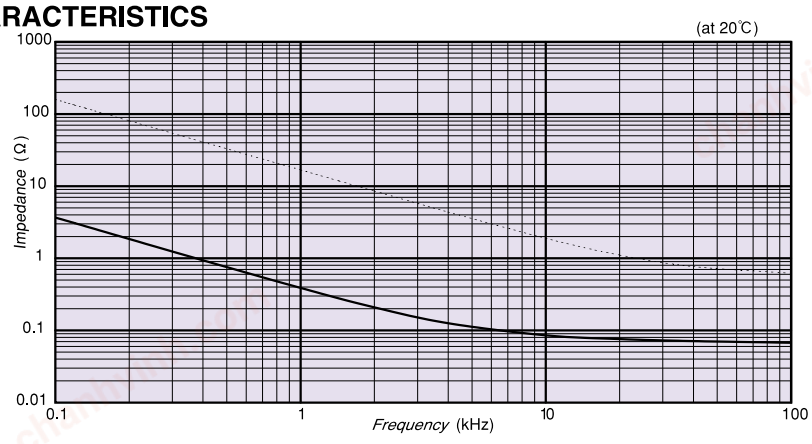
35 YXF 470M 10×20
50 YXF 10M 5×11

· TEMPERATURE CHARACTERISTICS





· FREQUENCY CHARACTERISTICS



· ENDURANCE

