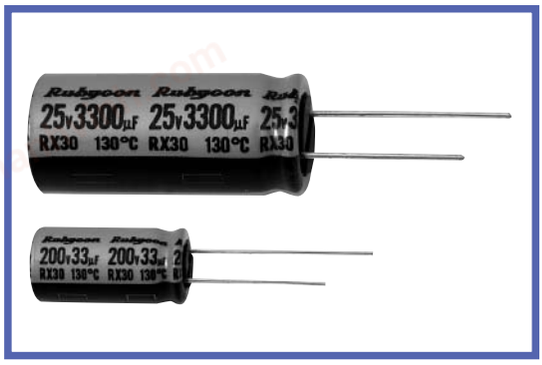
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Rubycon **MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS** **RX30**

RX30 SERIES

Load Life : 130°C 1000~4000hours.



◆FEATURES

- For Electronic Ballast of CFL, For Power Supply.
- RoHs compliance

◆SPECIFICATIONS

Items	Characteristics		
Category Temperature Range	−40~+130°C	−25~+130°C	
Rated Voltage Range	10~100V.DC	200,400V.DC	
Capacitance Tolerance	±20% (20°C, 120Hz)		
Leakage Current(MAX)	I=0.01CV or 3 μA whichever is greater. (After 2 minutes application of rated voltage)	CV ≦ 1000	CV >1000
		I=0.1CV+40 μA (1 minute) I=0.03CV+15 μA (5 minutes)	I=0.04CV+100 μA (1 minute) I=0.02CV+25 μA (5 minutes)
	I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)		

(tanδ) Dissipation Factor(MAX) (20°C, 120Hz)

Rated Voltage(V)	10	16	25	35	50	63	100	200	400
tan δ	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20

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.

	10~100WV	200,400WV
Capacitance Change	Within ±30% of the initial value.	Within ±20% of the initial value.
Dissipation Factor	Not more than 300% of the specified value.	Not more than 200% of the specified value.
Leakage Current	Not more than the specified value.	

Case Size	Life Time(hrs)	
	10~100WV	200,400WV
φ D=6.3	–	1000
φ D=8, 10	2000	2000
φ D≧ 12.5	4000	–

Low Temperature Stability Impedance Ratio(MAX) (120Hz)

Rated Voltage(V)	10	16	25	35	50	63	100	200	400
Z(−25°C)/Z(20°C)	3	2	2	2	2	2	2	3	6
Z(−40°C)/Z(20°C)	6	4	3	3	3	3	3	–	–

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

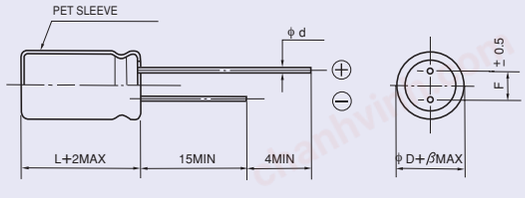
10WV~100WV

Frequency (Hz)		60(50)	120	1k	10k	100k ≦
Coefficient	1~4.7 μF	0.35	0.42	0.60	0.80	1.00
	10~33 μF	0.45	0.55	0.75	0.90	1.00
	47~330 μF	0.60	0.70	0.85	0.95	1.00
	470~1500μF	0.65	0.75	0.90	0.98	1.00
	2200~4700μF	0.75	0.80	0.95	1.00	1.00

200WV,400WV

Frequency (Hz)		120	1k	10k	100k ≦
Coefficient	1~5.6 μF	0.20	0.40	0.80	1.00
	6.8~15 μF	0.30	0.60	0.90	1.00
	22~33 μF	0.50	0.80	0.90	1.00

◆DIMENSIONS (mm)



φ D	6.3	8	10	12.5	16	18
φ d	0.5	0.6			0.8	
F	2.5	3.5	5.0		7.5	
β	0.5			1.0		

◆PART NUMBER

□□□	RX30	□□□□□	□	□□□	□□	D×L
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

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Rubycon **MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS** **RX30**

◆STANDARD SIZE

Rated Voltage (V·DC)	Rated capacitance (μF)	Size φ D×L(mm)	Rated ripple current (mA r.m.s./130℃, 100kHz)	(Ω MAX) Impedance 20℃, 100kHz
10 (1A)	330	8×11.5	360	0.22
	470	10×12.5	620	0.15
	1000	10×20	960	0.073
	2200	12.5×25	1430	0.040
	3300	16×25	1900	0.038
	4700	16×31.5	2300	0.034
16 (1C)	330	8×11.5	360	0.22
	470	10×12.5	620	0.15
	1000	10×20	960	0.073
	2200	12.5×25	1430	0.040
	3300	16×31.5	2300	0.034
	4700	16×35.5	2550	0.031
25 (1E)	220	8×11.5	360	0.22
	330	10×12.5	620	0.15
	470	10×16	800	0.10
	1000	12.5×20	1100	0.055
	2200	16×31.5	2300	0.034
	3300	16×35.5	2550	0.031
35 (1V)	100	8×11.5	360	0.22
	220	10×12.5	620	0.15
	330	10×16	800	0.10
	470	10×20	960	0.073
	1000	12.5×25	1430	0.040
	2200	16×35.5	2550	0.031
	3300	18×35.5	2800	0.028
50 (1H)	1	8×11.5	35	2.5
	2.2	8×11.5	50	1.8
	3.3	8×11.5	70	1.3
	4.7	8×11.5	100	0.85
	10	8×11.5	200	0.60
	22	8×11.5	260	0.35
	33	8×11.5	300	0.28
	47	8×11.5	300	0.28
	100	10×12.5	520	0.18
	220	10×20	890	0.082
	330	12.5×20	1000	0.065
	470	12.5×25	1200	0.051
	1000	16×31.5	2180	0.037
	2200	18×40	2800	0.029
63 (1J)	33	8×11.5	250	0.40
	47	10×12.5	400	0.27
	100	10×16	450	0.20
	220	12.5×20	820	0.10
	330	12.5×25	1000	0.072
	470	16×25	1500	0.069
	1000	16×31.5	1850	0.056
	1500	18×40	2350	0.043
100 (2A)	4.7	8×11.5	100	1.3
	10	8×11.5	200	1.0
	22	8×11.5	220	0.67
	33	10×12.5	260	0.45
	47	10×16	330	0.33
	100	12.5×20	670	0.17
	220	16×25	1100	0.13
	330	16×31.5	1300	0.10
	470	18×31.5	1600	0.092

Rated Voltage (V·DC)	Rated capacitance (μF)	Size φ D×L(mm)	Rated ripple current (mA r.m.s./130℃, 100kHz)
200 (2D)	4.7	6.3×11	100
		8×11.5	120
	5.6	8×11.5	130
		8×16	180
	6.8	8×11.5	130
		8×16	180
	10	8×16	200
		8×20	240
	15	8×16	200
		8×20	240
	22	8×20	240
		10×16	240
	33	10×20	320
400 (2G)	1	6.3×11	60
		8×11.5	65
	1.5	8×11.5	75
		8×16	80
	1.8	8×11.5	75
		8×16	85
	2.2	8×11.5	75
		8×16	90
		8×20	110
	2.7	8×16	95
		8×20	115
	3.3	8×16	100
		8×20	120
	4.7	8×20	120
		10×16	125
	5.6	10×16	130
		10×20	145
	6.8	10×20	150