



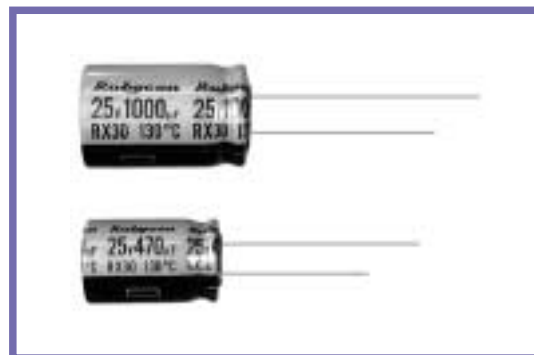
MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS RX30

RX30 SERIES

130°C Long Life, Low impedance.

◆ FEATURES

- 1 Load Life : 130°C 2000~4000hours.
- Low impedance at 100kHz with selected materials.
- Solution for high temperature application such as automobile electronics.



◆ SPECIFICATIONS

Items	Characteristics																															
Category Temperature Range	-40~+130℃																															
Rated Voltage Range	10~100V.DC																															
Capacitance Tolerance	±20% (20℃, 120Hz)																															
Leakage Current(MAX)	I=0.01CV or 3 μ A whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μ A) C=Rated Capacitance(μ F) V=Rated Voltage(V)																															
Dissipation Factor(MAX)	<table border="1"><tr><td>Rated Voltage(V)</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td>tan δ</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.09</td><td>0.08</td></tr></table> (20℃, 120Hz) When rated capacitance is over 1000 μ F, tan δ shall be added 0.02 to the listed value with increase of every 1000 μ F.								Rated Voltage(V)	10	16	25	35	50	63	100	tan δ	0.20	0.16	0.14	0.12	0.10	0.09	0.08								
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Endurance	After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements. <table border="1"><tr><td>Capacitance Change</td><td colspan="4">Within ±30% of the initial value.</td><td>Case Dia</td><td>Life Time</td></tr><tr><td>Dissipation Factor</td><td colspan="4">Not more than 300% of the specified value.</td><td>φ D≤10</td><td>2000</td></tr><tr><td>Leakage Current</td><td colspan="4">Not more than the specified value.</td><td>φ D≥12.5</td><td>4000</td></tr></table>								Capacitance Change	Within ±30% of the initial value.				Case Dia	Life Time	Dissipation Factor	Not more than 300% of the specified value.				φ D≤10	2000	Leakage Current	Not more than the specified value.				φ D≥12.5	4000			
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Low Temperature Stability Impedance Ratio(MAX)	<table border="1"><tr><td>Rated Voltage(V)</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40℃)/Z(20℃)</td><td>6</td><td>4</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr></table> (120Hz)								Rated Voltage(V)	10	16	25	35	50	63	100	Z(-25℃)/Z(20℃)	3	2	2	2	2	2	2	Z(-40℃)/Z(20℃)	6	4	3	3	3	3	3
Rated Voltage(V)	10	16	25	35	50	63	100																									
Z(-25℃)/Z(20℃)	3	2	2	2	2	2	2																									
Z(-40℃)/Z(20℃)	6	4	3	3	3	3	3																									

◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

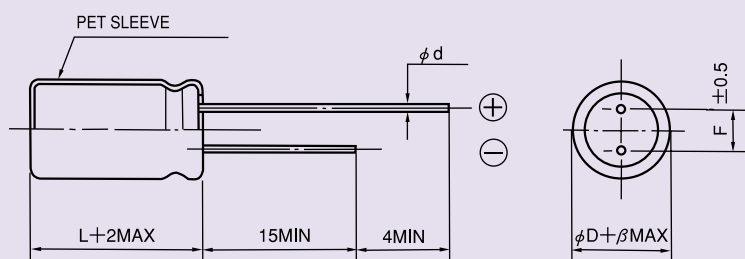
Frequency (Hz)		60 (50)	120	1k	10k	100k≤
Coefficient	1~4.7 μF	0.35	0.42	0.60	0.80	1.00
	10~33 μF	0.45	0.55	0.75	0.90	1.00
	47~330 μF	0.60	0.70	0.85	0.95	1.00
	470~1500 μF	0.65	0.75	0.90	0.98	1.00
	2200~4700 μF	0.75	0.80	0.95	1.00	1.00

◆ PART NUMBER

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

◆DIMENSIONS

(mm)



ϕD	8	10	12.5	16	18
ϕd	0.6			0.8	
F	3.5	5.0		7.5	
β	0.5		1.0		

◆STANDARD SIZE

Rated voltage 10V(1A)			
Rated capacitance (μF)	Size $\phi D \times L$ (mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)	Impedance (Ω MAX)
			20°C, 100kHz
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

Rated voltage 16V(1C)			
Rated capacitance (μF)	Size $\phi D \times L$ (mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)	Impedance (Ω MAX)
			20°C, 100kHz
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

Rated voltage 25V(1E)			
Rated capacitance (μF)	Size $\phi D \times L$ (mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)	Impedance (Ω MAX)
			20°C, 100kHz
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



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Rated voltage 35V(1V)			
Rated capacitance (μ F)	Size ϕ D×L (mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)	Impedance (Ω MAX)
			20°C, 100kHz
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

Rated voltage 50V(1H)			
Rated capacitance (μ F)	Size ϕ D×L (mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)	Impedance (Ω MAX)
			20°C, 100kHz
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

Rated voltage 63V(1J)			
Rated capacitance (μ F)	Size ϕ D×L (mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)	Impedance (Ω MAX)
			20°C, 100kHz
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



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Rated voltage 100V(2A)			
Rated capacitance (μ F)	Size ϕ D $\times$ L (mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)	Impedance (Ω MAX)
			20°C, 100kHz
4.7	8 $\times$ 11.5	100	1.3
10	8 $\times$ 11.5	200	1.0
22	8 $\times$ 11.5	220	0.67
33	10 $\times$ 12.5	260	0.45
47	10 $\times$ 16	330	0.33
100	12.5 $\times$ 20	670	0.17
220	16 $\times$ 25	1100	0.13
330	16 $\times$ 31.5	1300	0.10
470	18 $\times$ 31.5	1600	0.092