



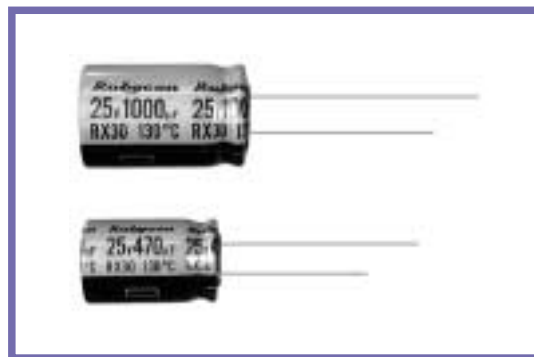
MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS RX30

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°C																								
Rated Voltage Range	10~100V.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) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)																								
Dissipation Factor(MAX)	(20°C, 120Hz) <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> <p>When rated capacitance is over 1000 μF, tan δ shall be added 0.02 to the listed value with increase of every 1000 μF.</p>	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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tan δ	0.20	0.16	0.14	0.12	0.10	0.09	0.08																		
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>Within ±30% of the initial value.</td> <td>Case Dia</td> <td>Life Time</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 300% of the specified value.</td> <td>φ D ≤ 10</td> <td>2000</td> </tr> <tr> <td>Leakage Current</td> <td>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)	(120Hz) <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°C)/Z(20°C)</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°C)/Z(20°C)</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	Rated Voltage(V)	10	16	25	35	50	63	100	Z(-25°C)/Z(20°C)	3	2	2	2	2	2	2	Z(-40°C)/Z(20°C)	6	4	3	3	3	3	3
Rated Voltage(V)	10	16	25	35	50	63	100																		
Z(-25°C)/Z(20°C)	3	2	2	2	2	2	2																		
Z(-40°C)/Z(20°C)	6	4	3	3	3	3	3																		

◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

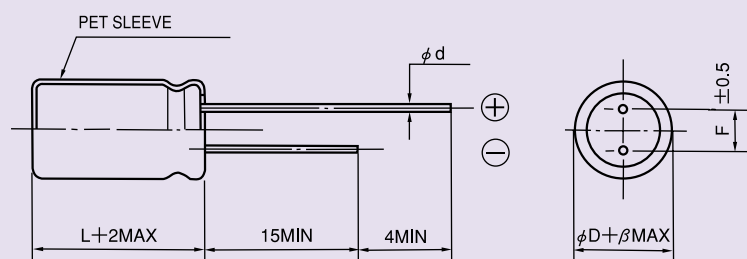
Frequency (Hz)	60 (50)	120	1k	10k	100k ≤
1~4.7 μF	0.35	0.42	0.60	0.80	1.00
10~33 μF	0.45	0.55	0.75	0.90	1.00
47~330 μF	0.60	0.70	0.85	0.95	1.00
470~1500 μF	0.65	0.75	0.90	0.98	1.00
2200~4700 μF	0.75	0.80	0.95	1.00	1.00

◆ PART NUMBER

 RX30 D X 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 \times L (mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)	Impedance (Ω MAX)
			20°C, 100kHz
100	8 \times 11.5	360	0.22
220	10 \times 12.5	620	0.15
330	10 \times 16	800	0.10
470	10 \times 20	960	0.073
1000	12.5 \times 25	1430	0.040
2200	16 \times 35.5	2550	0.031
3300	18 \times 35.5	2800	0.028

Rated voltage 50V(1H)

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
1	8 \times 11.5	35	2.5
2.2	8 \times 11.5	50	1.8
3.3	8 \times 11.5	70	1.3
4.7	8 \times 11.5	100	0.85
10	8 \times 11.5	200	0.60
22	8 \times 11.5	260	0.35
33	8 \times 11.5	300	0.28
47	8 \times 11.5	300	0.28
100	10 \times 12.5	520	0.18
220	10 \times 20	890	0.082
330	12.5 \times 20	1000	0.065
470	12.5 \times 25	1200	0.051
1000	16 \times 31.5	2180	0.037
2200	18 \times 40	2800	0.029

Rated voltage 63V(1J)

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
33	8 \times 11.5	250	0.40
47	10 \times 12.5	400	0.27
100	10 \times 16	450	0.20
220	12.5 \times 20	820	0.10
330	12.5 \times 25	1000	0.072
470	16 \times 25	1500	0.069
1000	16 \times 31.5	1850	0.056
1500	18 \times 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