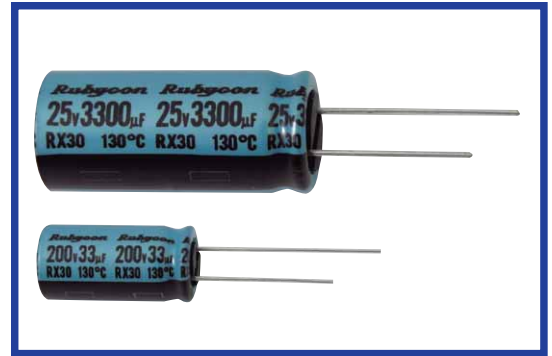


RX30 SERIES

Load Life : 130°C 1000~4000 hours.

◆FEATURES

- For LED Lighting.
- For Automotive applications.
- RoHS compliance.



◆SPECIFICATIONS

Items	Characteristics																								
Category Temperature Range	-40~+130℃					-25~+130℃																			
Rated Voltage Range	10~100V.DC					200,400V.DC																			
Capacitance Tolerance	±20% (20℃, 120Hz)																								
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage)					CV≤1000			CV>1000																
						I=0.1CV+40μA (1 minute) I=0.03CV+15μA (5 minutes)			I=0.04CV+100μA (1 minute) I=0.02CV+25μA (5 minutes)																
	I=Leakage Current(μA)					C=Capacitance(μF)			V=Rated Voltage(V)																
Dissipation Factor(MAX) (tanδ)	(20℃, 120Hz)																								
	Rated Voltage (V)	10	16	25	35	50	63	100	200	400															
<table><tr><td>tanδ</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><td>0.15</td><td>0.20</td></tr></table>											tanδ	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20					
tanδ	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20																
When capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.																									
Endurance	After life test with rated ripple current at conditions stated in the table below at 130℃, the capacitors shall meet the following requirements.																								
		10~100V.DC				200,400V.DC				<table><tr><td rowspan="2">Case Size</td><td colspan="2">Life Time (hrs)</td></tr><tr><td>10~100V</td><td>200, 400V</td></tr><tr><td>φD=6.3</td><td>—</td><td>1000</td></tr><tr><td>φD=8, 10</td><td>2000</td><td>2000</td></tr><tr><td>φD≥12.5</td><td>4000</td><td>—</td></tr></table>		Case Size	Life Time (hrs)		10~100V	200, 400V	φD=6.3	—	1000	φD=8, 10	2000	2000	φD≥12.5	4000	—
	Case Size	Life Time (hrs)																							
		10~100V	200, 400V																						
	φD=6.3	—	1000																						
φD=8, 10	2000	2000																							
φD≥12.5	4000	—																							
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.																								
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)																								
	Rated Voltage (V)	10	16	25	35	50	63	100	200	400															
	Z(-25℃)/Z(20℃)	3	2	2	2	2	2	2	3	6															
<table><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><td>—</td><td>—</td></tr></table>											Z(-40℃)/Z(20℃)	6	4	3	3	3	3	3	—	—					
Z(-40℃)/Z(20℃)	6	4	3	3	3	3	3	—	—																

◆MULTIPLIER FOR RIPPLE CURRENT

10~100V.DC

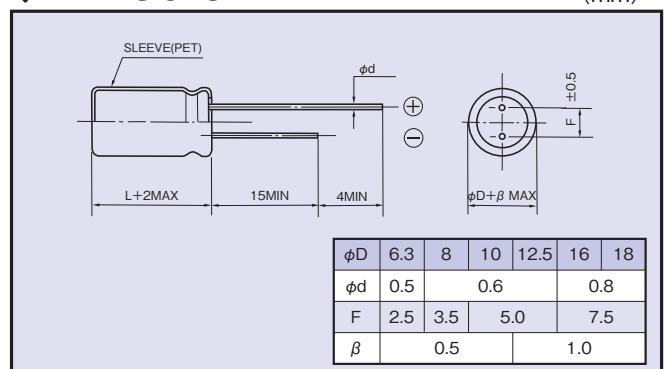
Frequency (Hz)		60(50)	120	1k	10k	100k≤
Coefficient	4.7μF	0.35	0.42	0.60	0.80	1.00
	10~33μF	0.45	0.55	0.75	0.90	1.00
	47~330μF	0.60	0.70	0.85	0.95	1.00
	470~1500μF	0.65	0.75	0.90	0.98	1.00
	2200~4700μF	0.75	0.80	0.95	1.00	1.00

200, 400V.DC

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

◆DIMENSIONS

(mm)



◆PART NUMBER

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

OPTION

	Code
PET Sleeve	Blank

◆STANDARD SIZE

Rated Voltage (V·DC)	capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)	Impedance (Ω MAX)
				20°C, 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)	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)	capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)
200 (2D)	4.7	6.3×11 8×11.5	100 120
	5.6	8×11.5 8×16	130 180
	6.8	8×11.5 8×16	130 180
	10	8×16 8×20	200 240
	15	8×16 8×20	200 240
	22	8×20 10×16	300 240
	33	10×20	320
400 (2G)	1	6.3×11 8×11.5	60 65
	1.5	8×11.5 8×16	75 80
	1.8	8×11.5 8×16	75 85
	2.2	8×11.5 8×16 8×20	75 90 110
	2.7	8×16 8×20	95 115
	3.3	8×16 8×20	100 120
	4.7	8×20 10×16	120 125
	5.6	10×16 10×20	130 145
	6.8	10×20	150

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