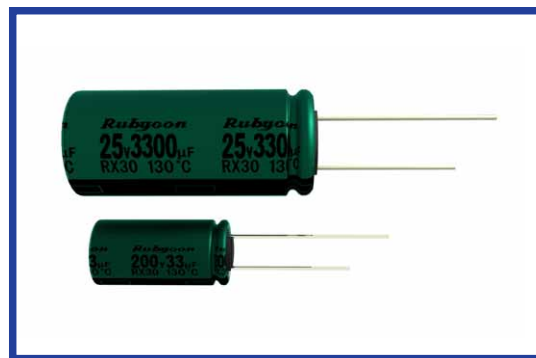


RX30 SERIES

Load Life : 130°C 1000~4000 hours

- For Automotive and LED Lighting applications.
- AEC-Q200.

RoHS
compliance



SPECIFICATIONS

Items	Characteristics																																							
Category Temperature Range	-40~+130℃					-25~+130℃																																		
Rated Voltage Range	10~100Vdc					200, 400Vdc																																		
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(Vdc)																																
Dissipation Factor(MAX) (tanδ)	<table><tr><td>Rated Voltage (Vdc)</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td><td>200</td><td>400</td></tr><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>									Rated Voltage (Vdc)	10	16	25	35	50	63	100	200	400	tanδ	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20	(20℃, 120Hz)										
	Rated Voltage (Vdc)	10	16	25	35	50	63	100	200	400																														
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 applying rated voltage with rated ripple current for specified time at 130℃, the capacitors shall meet the following requirements.																																							
		10~100Vdc				200, 400Vdc					<table><tr><td rowspan="2">Case Size</td><td colspan="2">Life Time (hrs)</td></tr><tr><td>10~100Vdc</td><td>200, 400Vdc</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)		10~100Vdc	200, 400Vdc	φD=6.3	—	1000	φD=8, 10	2000	2000	φD≥12.5	4000	—															
	Case Size	Life Time (hrs)																																						
		10~100Vdc	200, 400Vdc																																					
	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)	<table><tr><td>Rated Voltage (Vdc)</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td><td>200</td><td>400</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><td>3</td><td>6</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><td>—</td><td>—</td></tr></table>									Rated Voltage (Vdc)	10	16	25	35	50	63	100	200	400	Z(-25℃)/Z(20℃)	3	2	2	2	2	2	2	3	6	Z(-40℃)/Z(20℃)	6	4	3	3	3	3	3	—	—	(120Hz)
Rated Voltage (Vdc)	10	16	25	35	50	63	100	200	400																															
Z(-25℃)/Z(20℃)	3	2	2	2	2	2	2	3	6																															
Z(-40℃)/Z(20℃)	6	4	3	3	3	3	3	—	—																															

MULTIPLIER FOR RIPPLE CURRENT

10~100Vdc

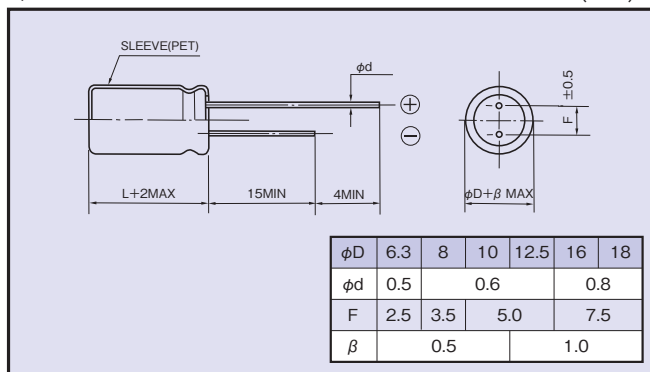
Frequency (Hz)		60(50)	120	1k	10k	100k≤
Coefficient	4.7μF	0.35	0.42	0.60	0.80	1.00
	10~33μF	0.45	0.55	0.75	0.90	1.00
	47~330μF	0.60	0.70	0.85	0.95	1.00
	470~1500μF	0.65	0.75	0.90	0.98	1.00
	2200~4700μF	0.75	0.80	0.95	1.00	1.00

200, 400Vdc

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 (Vdc)	Capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)	Impedance (Ω MAX)
				20°C, 100kHz
10	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	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	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	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	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	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	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 (Vdc)	Capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./130°C, 100kHz)
200	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
400	22	8×20	300
		10×16	240
	33	10×20	320
	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