

RX50 SERIES
UPGRADE
Load Life : 150°C 1000~2000 hours.
◆ FEATURES

- For Electronic Ballast, Power Supply.
- Solution for high temperature application such as automobile electronics.


◆ SPECIFICATIONS

Items	Characteristics																							
Category Temperature Range	-40~+150°C	-25~+150°C																						
Rated Voltage Range	10~63V.DC	160~400V.DC																						
Capacitance Tolerance	±20%(20°C,120Hz)																							
Leakage Current(MAX)	I=0.01CV or 3µA whichever is greater. (After 5 minutes application of rated voltage)	I=0.04CV+100µA (After 1 minutes application of rated voltage) I=0.02CV+25µA (After 5 minutes application of rated voltage)																						
	I=Leakage Current(µA) C=Rated Capacitance(µF) V=Rated Voltage(V)																							
Dissipation Factor(MAX)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>160</th> <th>200</th> <th>350</th> <th>400</th> </tr> </thead> <tbody> <tr> <td>tan δ</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> <td>0.11</td> <td>0.20</td> <td>0.20</td> <td>0.25</td> <td>0.25</td> </tr> </tbody> </table>		Rated Voltage (V)	10	16	25	35	50	63	160	200	350	400	tan δ	0.20	0.16	0.14	0.12	0.12	0.11	0.20	0.20	0.25	0.25
	Rated Voltage (V)	10	16	25	35	50	63	160	200	350	400													
tan δ	0.20	0.16	0.14	0.12	0.12	0.11	0.20	0.20	0.25	0.25														
When rated capacitance is over 1000µF, tan δ 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, the capacitors shall meet the following requirements.																							
	Capacitance Change		Within ±30% of the initial value.(WV≥160:±25%)							Case Dia	Life Time (hrs)													
	Dissipation Factor		Not more than 300% of the specified value.(WV≥160:200%)							∅D≤12.5	1000													
	Leakage Current		Not more than the specified value.							∅D≥16	2000													
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage (V)		10	16	25	35	50	63	160	200	350	400	(120Hz)											
	Z(-25°C)/Z(20°C)		2	2	2	2	2	2	3	3	6	6												
	Z(-40°C)/Z(20°C)		4	4	4	4	4	4	—	—	—	—												

◆ MULTIPLIER FOR RIPPLE CURRENT

(1)Frequency coefficient

[WV≤63V]

Frequency (Hz)		60(50)	120	1k	10k	100k≤
Coefficient	47~220µF	0.30	0.40	0.75	0.92	1.00
	330~1000µF	0.40	0.50	0.80	0.95	1.00
	2200~4700µF	0.55	0.65	0.85	0.98	1.00

(2)Temperature coefficient

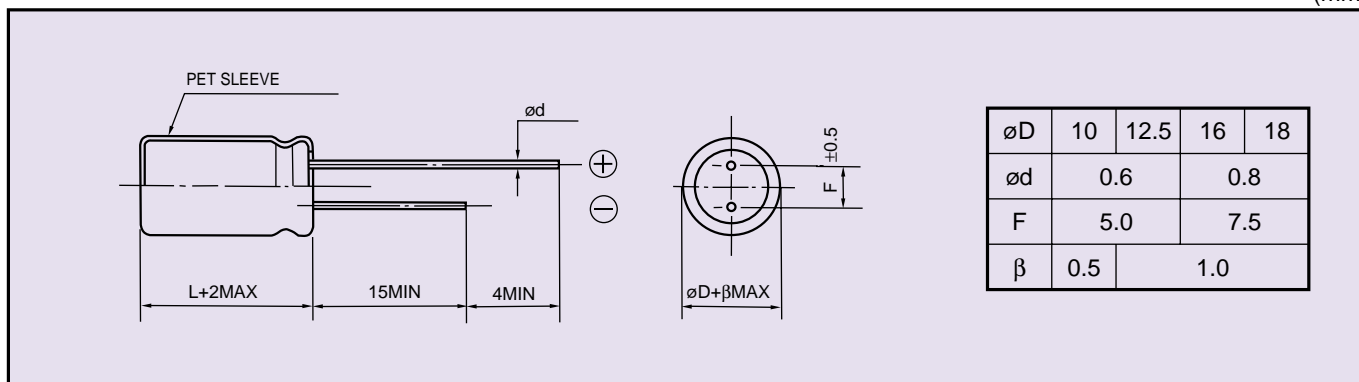
Ambient Temperature (°C)	150	125	105≥
Coefficient	1.0	1.8	2.0

[WV≥160V]

Frequency (Hz)		60(50)	120	500	1k	10k≤
Coefficient	2.2~6.8µF	0.50	1.00	1.20	1.30	1.50
	10~15µF	0.65	1.00	1.20	1.30	1.50
	22~33µF	0.80	1.00	1.20	1.30	1.50

◆ DIMENSIONS

(mm)


◆ STANDARD SIZE, RATED RIPPLE CURRENT

Size øD×L(mm), Ripple Current (mA r.m.s./150°C, 100kHz)

WV(V.DC) Cap(μF)	10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
47											10×16	220
100							10×16	370	10×20	300	12.5×20	350
220					10×16	370	10×20	460	12.5×20	400	16×31.5	650
330			10×16	370	10×20	460	12.5×20	600	12.5×25	500	16×35.5	680
470	10×16	370	10×20	460	12.5×20	600	12.5×25	750	16×31.5	700	18×35.5	750
1000	12.5×20	600	12.5×25	750	16×31.5	1100	16×35.5	1150	18×35.5	850		
2200	16×31.5	1100	16×35.5	1150	18×40	1370						
3300	16×35.5	1150	18×35.5	1300								
4700	18×35.5	1300										

Size øD×L(mm), Ripple Current (mA r.m.s./150°C, 120Hz)

WV(V.DC) Cap(μF)	160 (2C)		200 (2D)		350 (2V)		400 (2G)		
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	
2.2							10×16	36	
3.3						10×16	53	10×20	53
4.7						10×20	75	12.5×20	75
6.8						12.5×20	100		
10			10×16	125					
15	10×16	145	10×20	160					
22	10×20	170	12.5×20	200					
33	12.5×20	220							

◆ PART NUMBER

□□□	RX50	□□□□□	□	□□□	□□	D×L
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size