

RX50 SERIES

Load Life : 150°C 1000 hours.

◆FEATURES

- Solution for high temperature application such as automobile electronics.
- RoHS compliance.



◆SPECIFICATIONS

Items	Characteristics					
Category Temperature Range	-40~+150°C					
Rated Voltage Range	10~63V.DC					
Capacitance Tolerance	±20% (20°C, 120Hz)					
Leakage Current(MAX)	I=0.01CV or 3 μA whichever is greater. (After 5 minutes application of rated voltage)					
	I=Leakage Current(μA)	C=Rated Capacitance(μF)			V=Rated Voltage(V)	
Dissipation Factor(MAX) (tan δ)	Rated Voltage (V)	10	16	25	35	50 63
	tan δ	0.20	0.16	0.14	0.12	0.12 0.11
Endurance	(20°C, 120Hz)					
	After applying rated voltage with rated ripple current for 1000hrs at 150°C, the capacitors shall meet the following requirements.					
	Capacitance Change	Within ±30% of the initial value.				
	Dissipation Factor	Not more than 300% of the specified value.				
Low Temperature Stability Impedance Ratio(MAX)	Leakage Current	Not more than the specified value.				
	Rated Voltage (V)	10	16	25	35	50 63
	Z(-25°C)/Z(20°C)	2	2	2	2	2 2
	Z(-40°C)/Z(20°C)	4	4	4	4	4 4

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

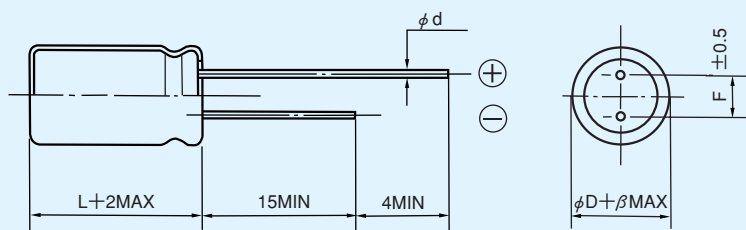
Frequency (Hz)		60 (50)	120	1k	10k	100k≤
Coefficient	47~220 μ F	0.30	0.40	0.75	0.92	1.00
	330~1000 μ F	0.40	0.50	0.80	0.95	1.00

◆PART NUMBER

□□□ RX50 □□□□□ □ □□□ □□ DXL
 Rated Voltage Series Rated Capacitance Capacitance Tolerance Option Lead Forming Case Size

◆DIMENSIONS

(mm)



ϕD	10	12.5
ϕd	0.6	
F	5.0	
β	0.5	1.0

◆STANDARD SIZE, RATED RIPPLE CURRENT

Size $\phi D \times L$ (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		
330			10×16	370	10×20	460	12.5×20	600	12.5×25	500		
470	10×16	370	10×20	460	12.5×20	600	12.5×25	750				
1000	12.5×20	600	12.5×25	750								