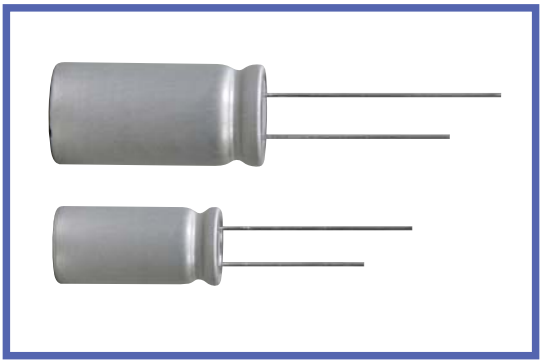
RX50 SERIES

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) (tanδ)	(20°C,120Hz)
Endurance	After applying rated voltage with rated ripple current for 1000hrs at 150°C, the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Dissipation Factor(MAX) (tanδ)

Rated Voltage (V)	10	16	25	35	50	63
tanδ	0.20	0.16	0.14	0.12	0.12	0.11

Endurance

Capacitance Change	Within ±30% of the initial value.
Dissipation Factor	Not more than 300% of the specified value.
Leakage Current	Not more than the specified value.

Low Temperature Stability Impedance Ratio(MAX)

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

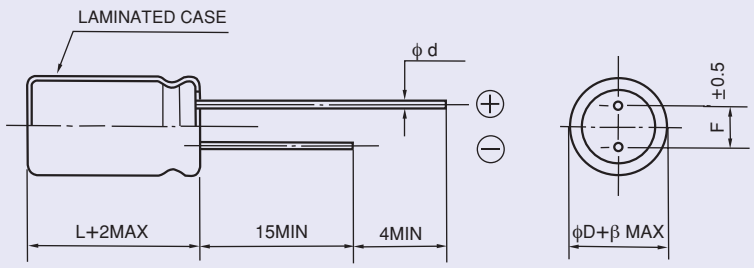
Frequency (Hz)		60(50)	120	1k	10k	100k≦
Coefficient	47~220μF	0.30	0.40	0.75	0.92	1.00
	330~1000μF	0.40	0.50	0.80	0.95	1.00

◆PART NUMBER

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

◆DIMENSIONS

(mm)



φ D	10	12.5
φ d	0.6	
F	5.0	
β	0.5	1.0

◆STANDARD SIZE

Rated Voltage (V•DC)	Rated capacitance (μF)	Size φ D×L(mm)	Rated ripple current (mA r.m.s./150°C, 100kHz)
10 (1A)	470	10×16	370
	1000	12.5×20	600
16 (1C)	330	10×16	370
	470	10×20	460
	1000	12.5×25	750
25 (1E)	220	10×16	370
	330	10×20	460
	470	12.5×20	600
35 (1V)	100	10×16	370
	220	10×20	460
	330	12.5×20	600
	470	12.5×25	750
50 (1H)	100	10×20	300
	220	12.5×20	400
	330	12.5×25	500
63 (1J)	47	10×16	220
	100	12.5×20	350