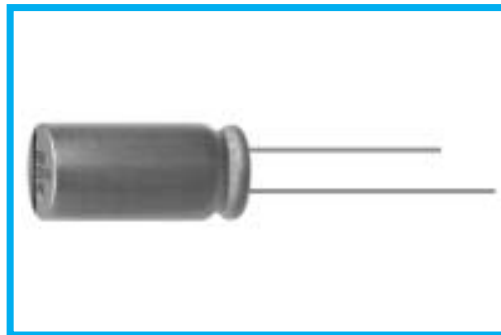


RX50 SERIES
Load Life : 150°C 1000 hours.
◆ FEATURES

- 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)	<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> </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> </tr> </tbody> </table> (20°C, 120Hz)	Rated Voltage (V)	10	16	25	35	50	63	tan δ	0.20	0.16	0.14	0.12	0.12	0.11							
		Rated Voltage (V)	10	16	25	35	50	63														
tan δ	0.20	0.16	0.14	0.12	0.12	0.11																
Endurance	After applying rated voltage with rated ripple current for 1000hrs at 150°C, the capacitors shall meet the following requirements. <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±30% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 300% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </tbody> </table>	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.															
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Low Temperature Stability Impedance Ratio(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> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> </tbody> </table> (120Hz)	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
		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

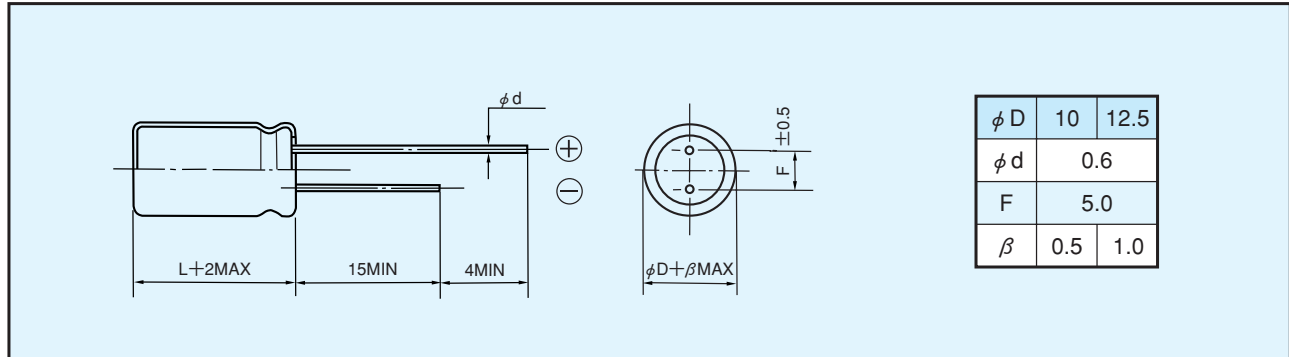
Frequency (Hz)		60 (50)	120	1k	10k	100k ≤
Coefficient	47~220 μF	0.30	0.40	0.75	0.92	1.00
	330~1000 μF	0.40	0.50	0.80	0.95	1.00

◆ PART NUMBER

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

◆ DIMENSIONS

(mm)



◆ 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								