

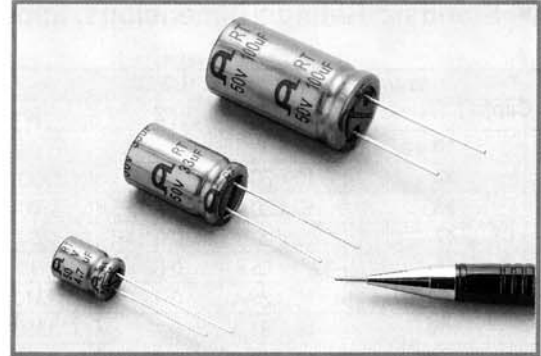


RT SERIES

TV Vertical, O.S.C Circuit, Radial Leads

Features

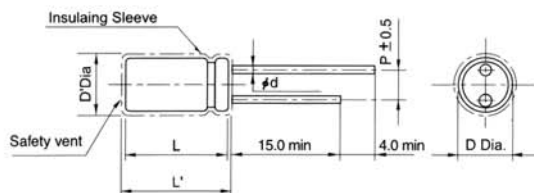
- Wide operating temperature range, Radial (-55°C ~ +105°C)
- Close capacitance tolerance.
- Extremely low temperature characteristics.
- For TV vertical circuit, O.S.C circuit, timing circuit etc.
- Load life of 1000 hours at 105°C



Specifications

Item	Performance Characteristics								
Operating temperature range	-55°C ~ +105°C								
Rated working voltage range	16V ~ 50V								
Nominal capacitance range	0.47 μF ~ 470 μF, ±20% or ±10%(at 20°C, 120Hz)								
D.C Leakage current(at 20°C)	The following specifications shall be satisfied when the rated voltage is applied for the required time. $I \leq 0.002CV + 1 \mu A (1 \text{ min})$ Where I=Leakage current(μA) C=Nominal capacitance(μF) V=Rated voltage(V)								
Tan δ(max., at 20°C, 120Hz)	0.08 Max.								
Characteristics at low and high temperature (max.) (impedance ratio at 120Hz)	Impedance ratio(at 120Hz):2 Max.(Z-55°C/Z20°C)								
	Temperature characteristic(at 120Hz)								
	<table border="1"> <thead> <tr> <th>Temp.</th> <th>Capacitance change 20°C</th> <th>Tan δ</th> </tr> </thead> <tbody> <tr> <td>-40°C</td> <td>-20% Max.</td> <td>0.3Max.</td> </tr> <tr> <td>+85°C</td> <td>+15% Max.</td> <td>0.08Max.</td> </tr> </tbody> </table>	Temp.	Capacitance change 20°C	Tan δ	-40°C	-20% Max.	0.3Max.	+85°C	+15% Max.
Temp.	Capacitance change 20°C	Tan δ							
-40°C	-20% Max.	0.3Max.							
+85°C	+15% Max.	0.08Max.							
Load life	After applying rated working voltage for 1000 hours at +105°C and then being stabilized at +20°C, capacitors shall meet following limits.								
	Capacitance change	Within ±15% of the initial measured value							
	Tan δ	≤ 150% of the initial specified value							
	Leakage current	≤ The initial specified value							
Shelf life	After storage for 1000 hours at +105°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet following limits.								
	Capacitance change	Within ±20% of the initial measured value							
	Tan δ	≤ 150% of the initial specified value							
	Leakage current	≤ 200% of the initial specified value							

Dimensions



Standard lead style

φD	6.3	8.0	10.0	12.5	16.0
p	2.5	3.5	5.0	7.5	
φd	0.5		0.6	0.8	

D' = [D+0.5]Max.

L' = [L+1.0]Max. at D ≤ 8.0

L' = [L+1.5]Max. at D ≥ 10.0

Dimensions & Maximum permissible ripple current

φ D x L(mm)

Cap(μF)	W.V(V)	16(1C)		25(1E)		50(1E)	
		SIZE	I _r	SIZE	I _r	SIZE	I _r
0.47						6.3x11	9
1.0						6.3x11	16
2.2						6.3x11	21
3.3				6.3x11	22	6.3x11	30
4.7				6.3x11	35	8x11.5	35
10		8x11.5	45	10x12.5	61	10x16	61
22		10x16	80	10x16	105	10x20	120
33		10x16	115	10x20	140	12.5x20	155
47		10x20	145	12.5x20	175	12.5x25	210
100		12.5x20	250	12.5x25	290	16x25	340
220		12.5x25	400	16x25	480	16x35.5	550
330		16x25	480	16x31.5	580		
470		16x35.5	725				

I_r: Maximum permissible ripple current[mA(rms) at 105°C, 120Hz]

RT SERIES

PERFORMANCE CURVES

— 50V-47 μ F
- - - 16V-470 μ F

