

# RT Series

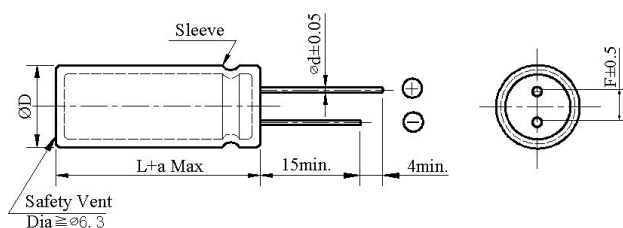
- Long life and high ripple current.
- Load life 2,000~4,000 hours at 105°C
- RoHS Compliant



## ◆ SPECIFICATIONS

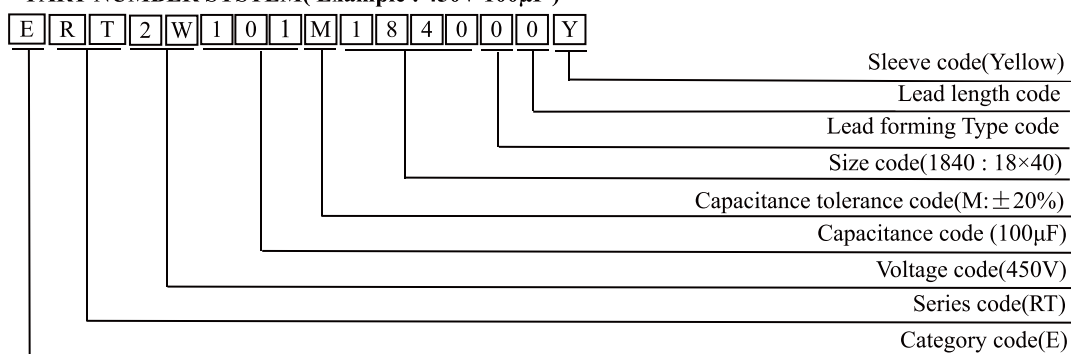
Item	Performance Characteristics							
Category Temperature Range	-40 ~ +105°C							
Working Voltage Range	200 ~ 450Vdc							
Capacitance Range	6.8 ~ 330μF							
Capacitance Tolerance	±20% (at 20°C and 120Hz)							
Dissipation Factor (tanδ) (at 20°C, 120Hz)	Rated Voltage (V)	200	250	350	400	420	450	
	tanδ(Max)	0.15	0.15	0.20	0.20	0.20	0.20	
Leakage Current	200~420Vdc			450Vdc				
	I ≤ 0.02CV + 10μA (2minutes)			I ≤ 0.03CV + 10μA (2minutes)				
Low Temperature Characteristics Impedance Ratio(MAX)	I: Leakage current (μA) C: Rated capacitance (μF) V: Rated voltage (V)							
	Rated Voltage (V)	200	250	350	400	420	450	
	Z(-25°C)/Z(+20°C)	3	3	5	5	5	6	
Z(-40°C)/Z(+20°C)	6	6	6	6	6	9		
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2,000 to 4,000 hours at 105°C.							
	Capacitance change	≅ ±20% of the initial value					Size	Life time (hours)
	Dissipation factor(tanδ)	≅ 200% of the specified value					≅ 12.5Φ	2,000
	Leakage current	≅ specified value					≧ 16Φ	4,000
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 20°C after the rated voltage applied for 1,000 hours at 105°C without voltage applied.							
	Capacitance change	≅ ±20% of the initial value						
	Dissipation factor(tanδ)	≅ 200% of the specified value						
	Leakage current	≅ 200% of the specified value						

## ◆ DIMENSIONS (mm)



ΦD	10	12.5	16	18
ΦD	ΦD +0.5 Max			
Φd	0.6	0.6	0.8	0.8
F	5.0	5.0	7.5	7.5
a	L+2.0 Max			

## ◆ PART NUMBER SYSTEM( Example : 450V 100μF )



## RT Series

◆ Case size & Permissible rated ripple current: (mA rms) at 105°C / 100KHz

μF \ Vdc	200		250		350	
	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
6.8					10×16	135
10	10×16	150	10×20	165	10×20	165
15	10×16	165	10×20	190	10×20	195
22	10×20	270	10×20	280	12.5×20	350
33	10×20	322	12.5×20	368	12.5×25	400
47	12.5×20	465	12.5×25	510	16×25	600
68	12.5×25	630	16×20	690	18×25	765
82	16×25	735	16×25	780	18×30	855
100	18×25	840	18×25	915	18×35	980
120	18×25	900	18×25	975	18×40	1125
150	18×30	1170	18×30	1215		
220	18×35	1380	18×35	1410		
330	18×40	1515				
μF \ Vdc	400		420		450	
	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
6.8	10×16	135	10×16	140	10×20	145
10	10×20	165	10×20	170	12.5×20	195
15	12.5×20	270	12.5×20	280	12.5×20	300
22	12.5×25	360	12.5×25	370	12.5×25	390
33	16×25	420	16×25	435	16×25	465
47	16×30	585	16×30	590	18×25	600
68	16×35	755	16×40	765	18×30	830
82	18×30	840	18×30	855	18×35	950
100	18×35	960	18×35	1020	18×40	1080
120	18×40	1120	18×40	1230		

◆ **RIPPLE CURRENT MULTIPLIERS**  
Frequency Multipliers

Vdc	Frequency (Hz)				
	50	120	1K	10K	100K
200 ~ 450	0.45	0.50	0.80	0.90	1.00