

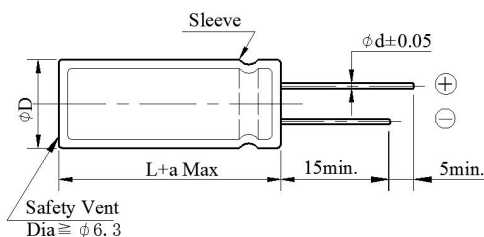
RT Series

- Low impedance and High ripple current.
- Load life 6000~8,000 hours at 105°C.

◆ SPECIFICATIONS

Item	Performance Characteristics																			
Category Temperature Range	-40~ +105℃																			
Working Voltage Range	6.3 ~ 100Vdc																			
Capacitance Range	15 ~8,200μF																			
Capacitance Tolerance	±20% (at 20℃ and 120Hz)																			
Dissipation Factor (tan δ) (at 20℃, 120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50	63	80	100										
	tan δ (Max)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.09	0.08										
	The above values should be increased by 0.02 for every additional 1000μF																			
Leakage Current	I≤0.01CV or 3μA whichever is greater I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Apply rated voltage the rated voltage for 2 minutes.																			
Low Temperature Characteristics Impedance Ratio(MAX)	Rated Voltage (V)	6.3	10	16	25	35	50	63	80	100	(at120Hz)									
	Z(-25℃)/Z(+20℃)	4	3	2	2	2	2	2	2	2										
	Z(-40℃)/Z(+20℃)	8	6	4	3	3	3	3	3	3										
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 6,000~8,000 hours at 105℃																			
	Capacitance change		≒±25% of the initial value								<table><tr><td>Size</td><td>Life time (hours)</td></tr><tr><td>≒ 6.3Φ</td><td>6,000</td></tr><tr><td>8 Φ~10Φ</td><td>7,000</td></tr><tr><td>≒ 12.5Φ</td><td>8,000</td></tr></table>		Size	Life time (hours)	≒ 6.3Φ	6,000	8 Φ~10Φ	7,000	≒ 12.5Φ	8,000
	Size	Life time (hours)																		
	≒ 6.3Φ	6,000																		
8 Φ~10Φ	7,000																			
≒ 12.5Φ	8,000																			
Dissipation factor(tan δ)		≒200% of the specified value																		
Leakage current		≒specified value																		
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 20℃ after the rated voltage applied for 1,000 hours at 105℃without voltage applied.																			
	Capacitance change		≒±25% of the initial value																	
	Dissipation factor(tan δ)		≒200% of the specified value																	
	Leakage current		≒200% of the specified value																	
Others	Conforms to JIS-C-5101-4 (1998) and IEC 60384-4																			

◆ DIMENSIONS(mm)



ΦD	5	6.3	8	10	12.5/13	16	18
ΦD	ΦD +0.5 Max						
Φd	0.5	0.5	0.5/0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
a	$< 20 L \pm 1.5 \text{Max}$ $\geq 20 L \pm 2.0 \text{Max}$						

◆ PART NUMBER SYSTEM(Example :16V 2200μF)

E	R	T	0	1	6	M	2	2	2	G	2	0	L	O	5	0	A	A	
																			Special Request
																			Lead size
																			Lead type
																			Height code (L: 20mm)
																			Diameter code (G: Φ10)
																			Capacitance code (2200 μF)
																			Capacitance tolerance code (M: ±20%)
																			Voltage code (16V)
																			Series code (RT)
																			Category code

RT Series

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

WV(V)	Nominal capacitance (uF)	Case Size ΦD×L (mm)	Impedance (Ω _{max} /100kHz) 25°C	Max.Rated Ripple current @105°C/100kHz (mA rms)	WV(V)	Nominal capacitance (uF)	Case Size ΦD×L (mm)	Impedance (Ω _{max} /100kHz) 25°C	Max.Rated Ripple current @105°C/100kHz (mA rms)
6.3	330	6.3x11	0.150	500	10	150	5x11	0.280	345
	470	6.3x11	0.130	540		220	6.3x12	0.150	540
	560	6.3x12	0.100	680		470	8x12	0.100	800
	820	8x12	0.080	945		1000	8x14	0.070	1050
	1000	8x12	0.075	980			10x16	0.060	1500
		10x13	0.068	1300		1200	10x20	0.055	1800
	2200	10x16	0.056	1800		1500	8x20	0.060	1500
	3300	10x20	0.035	2500			10x16	0.058	1760
						2200	10x20	0.053	2100
						3300	13x20	0.048	2480
						3900	13x25	0.045	2900
						4700	13x25	0.040	3200
16	220	6.3x9	0.180	480	25	4.7	5x11	0.600	200
	330	6.3x12	0.140	600		22	5x11	0.500	300
	470	8x14	0.100	1000		100	6.3x11	0.230	500
	680	8x16	0.090	1250		220	8x12	0.130	930
		10x13	0.115	1330		330	8x12	0.120	945
	1000	8x16	0.075	1300		470	8x14	0.090	980
		10x16	0.068	1760			10x16	0.078	1450
	1500	10x16	0.066	1800		560	8x16	0.080	1250
		10x20	0.060	1960		680	10x20	0.066	1800
	2200	10x20	0.055	2000		820	10x20	0.065	1960
	2700	13x25	0.048	2900		1000	10x20	0.063	2000
	3300	13x30	0.040	3450		1500	10x20	0.060	2200
	4700	16x26	0.030	3630		2200	13x25	0.040	2680
						2700	16x26	0.038	3500
35	33	6.3x9	0.380	320	50	10	5x11	0.900	200
	68	6.3x11	0.350	480		22	5x11	0.860	260
	100	8x12	0.145	850		33	6.3x11	0.550	340
	150	8x12	0.140	900		47	6.3x11	0.500	360
	220	8x12	0.140	930		100	8x12	0.190	725
	330	10x13	0.130	1330		150	10x13	0.130	980
	470	8x16	0.080	1050		220	10x16	0.115	1370
		10x12	0.090	1050		330	10x16	0.100	1400
	560	10x20	0.065	1960		470	10x20	0.080	1800
	680	13x20	0.062	2200		560	13x20	0.078	2100
	1000	13x20	0.060	2400		680	13x15	0.080	1800
	1500	13x25	0.056	2500			13x20	0.078	2150
	1800	13x20	0.058	2500		820	13x25	0.076	2300
	2200	13x25	0.055	2600		1000	10x40	0.054	2900
	3300	16x26	0.038	3500			13x25	0.075	2500
						1500	18x26	0.050	3290
						2200	16x35	0.030	3500

RT Series

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

WV(V)	Nominal capacitance (uF)	Case Size ΦD×L (mm)	Impedance (Ωmax/100kHz) 25°C	Max.Rated Ripple current @105°C/100kHz (mA rms)	WV(V)	Nominal capacitance (uF)	Case Size ΦD×L (mm)	Impedance (Ωmax/100kHz) 25°C	Max.Rated Ripple current @105°C/100kHz (mA rms)
63	22	6.3x11	0.900	270	80	47	10x13	0.450	500
	100	10x12	0.250	750		100	10x16	0.180	800
	120	10x13	0.220	900		150	10x25	0.150	980
	150	8x16	0.400	900		220	13x17	0.130	900
	180	10x13	0.180	1000			13x20	0.120	1200
	220	10x16	0.160	1200		330	13x20	0.115	1220
	470	13x20	0.092	1900			13x25	0.110	1680
		13x25	0.090	2000		390	10x30	0.095	1200
	560	13x25	0.090	2100			13x25	0.110	1800
	680	13x25	0.090	2200		470	13x30	0.060	2000
	820	10x40	0.060	2500		560	13x40	0.080	2300
	1000	18x22	0.045	3000		820	18x30	0.045	2900
	1200	18x30	0.035	3200					
	1500	18x40	0.030	3500					
100	47	8x12	0.500	400	◆ RIPPLE CURRENT MULTIPLIERS Frequency Multipliers				
		10x13	0.300	490					
	68	10x16	0.220	610					
	82	10x14	0.260	600					
		10x16	0.200	650					
	100	10x14	0.220	620					
		10x16	0.190	680					
		10x30	0.160	900					
	150	13x17	0.180	860					
	220	10x40	0.160	1050					
		13x25	0.150	1250					
	390	13x40	0.100	1900					
	680	18x30	0.058	2150					

Vdc	Cap(uF)	Frequency (Hz)			
		120	1K	10K	100K
6.3 ~ 100	15 ~ 68	0.30	0.55	0.80	1.00
	82 ~ 220	0.40	0.60	0.85	1.00
	330 ~ 820	0.50	0.65	0.90	1.00
	1000 ~ 8200	0.60	0.70	0.95	1.00