

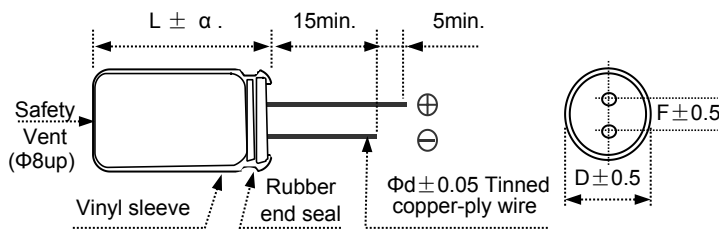
RT Series

- Ultra Low impedance for Personal Computer and Storage Equipment
- Endurance with ripple current:105°C 6000 ~ 8000 hours
- RoHS2.0 Compliant

◆ 规格表 Specifications

项目 Items	特性参数 Characteristics							
使用温度范围 Category Temperature Range	-40 ~ +105°C							
额定工作电压范围 Rated Voltage	6.3 ~ 50V.DC							
静电容量允许偏差 Capacitance Tolerance	±20%(M) (at 20°C,120Hz)							
漏电流 Leakage Current	I≤0.01CV or 3µA, 二者取最大值 (施加额定工作电压2分钟后) Whichever is greater (After 2 minutes application of rated voltage) Note: I=Max.leakage current (µA), C=Nominal capacitance(µF), V=Rated voltage(V) (at 20°C)							
损耗角正切值tanδ Dissipation Factor	Rated voltage(V)	6.3	10	16	25	35	50	
	tanδ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	
	标称容量超过1000uF,则每增加1000uF,损耗角正切值增加0.02 When nominal capacitance exceeds 1000µF,add 0.02 to the value above for each 1000µF increase. (at 20°C,120Hz)							
低温特性 Low Temperature Characteristics (Max.Impedance Ratio)	阻抗比值不得超过下表中列出的值 The impedance ratio shall not exceed the values listed in the below table. (at 120Hz)							
	Rated voltage(V)	6.3	10	16	25	35	50	
	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	
	Z(-40°C)/Z(+20°C)	8	6	4	3	3	3	
耐久性 Endurance	在105°C环境中, 不超过额定电压的范围内叠加最大允许纹波电流, 连续加载右表时间, 经恢复到20°C后, 电容器满足以下各项要求。 The following specifications shall be satisfied when the capacitors are restored to 20°C after applied within maximum allowable ripple current and not over rated voltage range for the time in the table at							
	Capacitance change	≤ ±25% of the initial value(6.3V、10Vdc; ≤30%)					时间 (hrs)	
	D.F.(tanδ)	≤ 200% of the initial specified value					Φ5 & Φ6.3: 6000	
	Leakage current	≤ The initial specified value					Φ8 ~ Φ10: 7000	
							≥ Φ13: 8000	
高温储存特性 Shelf Life	在105°C环境中, 不施加电压条件下储存1000小时, 经恢复到20°C后, 电容器满足以下各项要求。 The following specifications shall be satisfied when the capacitors are restored at 20°C after exposing them for 500 hours at 105°C without voltage applied.							
	Capacitance change	≤ ±25% of the initial value(6.3V、10Vdc; ≤30%)						
	D.F.(tanδ)	≤ 200% of the specified value						
	Leakage current	≤ 200% of the specified value						

◆ 尺寸图 (单位: mm) DIMENSIONS (Unit:mm)



ΦD	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.5/0.6	0.6	0.6	0.8	0.8

α	(L<20)1.5
	(L≥20)2.0

◆ 纹波电流修正系数 Rated Ripple Current Coefficient

● 频率系数 Frequency Coefficient

Capacitance(µF)	Frequency(Hz)			
	120	1k	10k	100k
6.8 ~ 180	0.40	0.75	0.90	1.00
220 ~ 560	0.50	0.85	0.94	1.00
680 ~ 1,800	0.60	0.87	0.95	1.00
2,200 ~ 3,900	0.75	0.90	0.95	1.00
4,700 ~ 6,800	0.85	0.95	0.98	1.00



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◆ 标准品一览表 Standard Ratings

WV (Vdc)	Cap (μ F)	Case size ϕ D×L (mm)	Impedance (Ω) Max. 20°C/100kHz	Rated ripple current (mArms) 105°C/100kHz
6.3	220	5X11	0.22	345
	470	6.3X11	0.094	540
	820	8X12	0.056	945
	1200	8X16	0.045	1250
	1200	10X13	0.039	1330
	1500	8X20	0.029	1500
	1800	10X16	0.028	1760
	2200	10X20	0.020	1960
	2700	10X25	0.018	2250
	3900	13X20	0.017	2480
	4700	13X25	0.015	2900
	5600	13X30	0.013	3450
	6800	13X35	0.012	3570
	6800	16X21	0.015	3250
	8200	16X26	0.013	3630
10000	18X26	0.012	3650	
10	150	5X11	0.22	345
	330	6.3X11	0.094	540
	680	8X12	0.056	945
	1000	8X16	0.045	1250
	1000	10X13	0.039	1330
	1500	8X20	0.029	1500
	1500	10X16	0.028	1760
	1800	10X20	0.020	1960
	2200	10X25	0.018	2250
	3300	13X20	0.017	2480
	3900	13X25	0.015	2900
	4700	13X30	0.013	3450
	4700	16X21	0.015	3250
	5600	13X35	0.012	3570
	6800	16X26	0.013	3630
8200	18X26	0.012	3650	
16	100	5X11	0.22	345
	220	6.3X11	0.094	540
	470	8X12	0.056	945
	680	8X16	0.045	1250
	680	10X13	0.039	1330
	1000	8X20	0.029	1500
	1000	10X16	0.028	1760
	1500	10X20	0.020	1960
	1800	10X25	0.018	2250
	2200	13X20	0.017	2480
	2700	13X25	0.015	2900
	3300	13X30	0.013	3450
	3300	16X21	0.015	3250
	3900	13X35	0.012	3570
	4700	16X26	0.013	3630
5600	18X26	0.012	3650	



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◆ 标准品一览表 Standard Ratings

WV (Vdc)	Cap (μ F)	Case size ϕ D×L (mm)	Impedance (Ω) Max. 20°C/100kHz	Rated ripple current (mA _{rms}) 105°C/100KHz
25	68	5X11	0.22	345
	150	6.3X11	0.094	540
	330	8X12	0.056	945
	390	8X16	0.045	1250
	470	10X13	0.039	1330
	560	8X10	0.029	1500
	680	10X16	0.028	1760
	820	10X20	0.020	1960
	1000	10X25	0.018	2250
	1500	13X20	0.017	2480
	1800	13X25	0.015	2900
	2200	13X30	0.013	3450
	2200	16X21	0.015	3250
	2700	13X35	0.012	3570
	3300	16X26	0.013	3630
3900	18X26	0.012	3650	
35	47	5X11	0.22	345
	100	6.3X11	0.094	540
	220	8X12	0.056	945
	270	8X16	0.045	1250
	330	10X13	0.039	1330
	390	8X20	0.029	1500
	470	10X16	0.028	1760
	560	10X20	0.020	1960
	680	10X25	0.018	2250
	1000	13X20	0.017	2480
	1200	13X25	0.015	2900
	1500	13X30	0.013	3450
	1500	16X21	0.015	3250
	1800	13X35	0.012	3570
	2200	16X26	0.013	3630
2700	18X26	0.012	3650	
50	27	5X11	0.34	238
	56	6.3X11	0.14	385
	100	8X12	0.074	724
	120	8X16	0.061	950
	150	10X13	0.061	979
	180	8X20	0.046	1190
	220	10X16	0.042	1370
	270	10X20	0.030	1580
	330	10X25	0.028	1870
	470	13X20	0.027	2050
	560	13X25	0.023	2410
	680	13X30	0.021	2860
	820	13X35	0.019	2960
	820	16X21	0.023	2730
	1000	16X26	0.021	3010
1500	18X26	0.019	3290	

※铝电解电容器由于在纹波电流叠加时自我发热、温度上升而老化，中心温度每升温5°C寿命减少一半。要想保持长寿命请在使用过程中降低纹波电流。
The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

