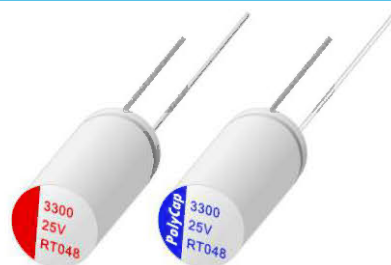


RT series Large size & Ultra-high Ripple Current

- Low ESR, Ultra-high ripple current
- Load life of 2000 hours at 105°C
- Compliant to the RoHS2.0 directive
- Suitable for Industrial high power supply etc.

具有超低 ESR 和超大纹波电流,产品满足 RoHS2.0 指令,适合用于工业大功率电源等。



✧ Specifications

Items	Characteristics	
Operating Temp. Range	-55°C ~ +105°C	
Capacitance Range	27 ~ 4700μF	
Capacitance Tolerance	M : ±20%	
Rated Voltage Range	6.3V ~ 100V DC	
Dissipation Factor	Not to exceed the value specified	
Leakage Current	Not to exceed the value specified (after 2 minutes)	
ESR (100K~300KHz)	Not to exceed the value specified	
Endurance 105°C · 2000h · at rated voltage	Capacitance Change	Within ±20% of the value before test
	Dissipation Factor	Not to exceed 150% of the value specified
	ESR	Not to exceed 150% of the value specified
	Leakage current	Not to exceed the value specified
Moisture Resistance Stored at 60°C · RH90~95% · 1000h	Capacitance Change	Within ±20% of the value before test
	Dissipation Factor	Not to exceed 150% of the value specified
	ESR	Not to exceed 150% of the value specified
	Leakage Current	Not to exceed the value specified

✧ Dimensions (Unit:mm)

Φ5.5mm~Φ6.3mm
Plastic coating Aluminum. Case

The diagram shows a side view of a capacitor. The main body is a cylinder with diameter ΦD and length $L + \alpha \text{Max}$. It has a plastic coating and an aluminum case. Two lead wires extend from the right side. The top lead wire is labeled "Lead Wire" and has a positive terminal (+). The distance from the end of the main body to the start of the lead wires is 15Min . The distance between the two lead wires is Φd . The distance from the end of the top lead wire to the end of the bottom lead wire is 4Min . The distance from the end of the bottom lead wire to the end of the main body is F .

Φ8mm~Φ12.5mm
Plastic coating Aluminum. Case

The diagram shows a side view of a capacitor, similar to the one on the left but with a larger diameter. It has a plastic coating and an aluminum case. Two lead wires extend from the right side. The top lead wire is labeled "Lead Wire" and has a positive terminal (+). The distance from the end of the main body to the start of the lead wires is 15Min . The distance between the two lead wires is Φd . The distance from the end of the top lead wire to the end of the bottom lead wire is 4Min . The distance from the end of the bottom lead wire to the end of the main body is F . A "Stand-off" is indicated between the main body and the lead wires.

$\Phi D + 0.5 \text{max.}$	5.5			6.3			8		10			12.5		
L	14	16	18	14	16	18	16	20	16	18	20	17	21	26
α	1.0			1.0			1.5		1.5			1.5		
$F \pm 0.5$	2.5			2.5			3.5		5.0			5.0		
$\Phi d \pm 0.05$	0.5			0.5			0.6		0.6			0.6		



✧ Capacitance List

SIZE \ W.V (S.V)	6.3 (7.2)	16 (18)	25 (29)	35 (40)
5.5×14		270 ~ 560μF	180 ~ 390μF	82 ~ 180μF
5.5×16		330 ~ 680μF	220 ~ 470μF	100 ~ 220μF
5.5×18		390 ~ 820μF	270 ~ 470μF	100 ~ 270μF
6.3×14	1000 ~ 1500μF	470 ~ 820μF	330 ~ 470μF	120 ~ 270μF
6.3×16	1200 ~ 1800μF	560 ~ 1000μF	390 ~ 560μF	150 ~ 330μF
6.3×18		680 ~ 1000μF	470 ~ 680μF	180 ~ 390μF
8×16	1200 ~ 2200μF	560 ~ 1200μF	470 ~ 820μF	180 ~ 390μF
8×20		820 ~ 1500μF	560 ~ 1200μF	220 ~ 560μF
10×16	1800 ~ 3900μF	820 ~ 2200μF	680 ~ 1200μF	220 ~ 680μF
10×18		1000 ~ 2200μF	820 ~ 1500μF	270 ~ 820μF
10×20		1200 ~ 2700μF	1000 ~ 1800μF	330 ~ 1000μF
12.5×17		1500 ~ 2700μF	1000 ~ 2200μF	560 ~ 1200μF
12.5×21		1800 ~ 3900μF	1500 ~ 2700μF	820 ~ 1500μF
12.5×26		2700 ~ 4700μF	1800 ~ 3900μF	1000 ~ 1800μF

SIZE \ W.V (S.V)	50 (58)	63 (72)	80 (92)	100 (115)
5.5×14	39 ~ 82μF	27 ~ 47μF		
5.5×16	47 ~ 100μF	33 ~ 56μF		
5.5×18	56 ~ 100μF	39 ~ 68μF		
6.3×14	68 ~ 100μF	47 ~ 68μF		
6.3×16	82 ~ 120μF	56 ~ 82μF		
6.3×18	82 ~ 150μF	56 ~ 100μF		
8×16	82 ~ 180μF	56 ~ 120μF	33 ~ 68μF	27 ~ 39μF
8×20	100 ~ 220μF	82 ~ 150μF	47 ~ 82μF	33 ~ 56μF
10×16	120 ~ 270μF	82 ~ 180μF	47 ~ 100μF	33 ~ 68μF
10×18	120 ~ 330μF	100 ~ 220μF	56 ~ 120μF	39 ~ 82μF
10×20	150 ~ 390μF	120 ~ 270μF	68 ~ 150μF	47 ~ 100μF
12.5×17	220 ~ 390μF	150 ~ 270μF	82 ~ 180μF	56 ~ 100μF
12.5×21	270 ~ 560μF	220 ~ 390μF	120 ~ 220μF	82 ~ 150μF
12.5×26	330 ~ 680μF	270 ~ 470μF	150 ~ 270μF	100 ~ 180μF

✧ Characteristics List

W.V (V)	Capacitance (μF)	L.C. (μA,2min)	tgδ (120Hz,20℃)	ESR (mΩ,100kHz)	Rated Ripple Current(mA,r.m.s)	Size ΦD×L(mm)	Part Number
6.3	1500	945	0.08	8	6000	6.3×14	PRT152M6R3E14□□□□□□
	1800	1000	0.08	8	6200	6.3×16	PRT182M6R3E16□□□□□□
	1800	1000	0.08	8	6400	8×16	PRT182M6R3F16□□□□□□
	3300	1000	0.08	8	6700	10×16	PRT332M6R3G16□□□□□□
16	560	896	0.10	10	4100	5.5×14	PRT561M016D14□□□□□□
	680	1000	0.10	10	4300	5.5×16	PRT681M016D16□□□□□□
	820	1000	0.10	10	4600	5.5×18	PRT821M016D18□□□□□□
	820	1000	0.10	10	5100	6.3×14	PRT821M016E14□□□□□□

W.V. (V)	Capacitance (μ F)	L.C. (μ A,2min)	tg δ (120Hz,20°C)	ESR (m Ω ,100kHz)	Rated Ripple Current(mA,r.m.s)	Size Φ D×L(mm)	Part Number
16	820	1000	0.10	10	5300	6.3×16	PRT821M016E16□□□□□□
	1000	1000	0.10	10	5600	6.3×18	PRT102M016E18□□□□□□
	1200	1000	0.10	10	6400	8×16	PRT122M016F16□□□□□□
	1500	1000	0.10	8	7100	8×20	PRT152M016F20□□□□□□
	1800	1000	0.10	8	7600	10×16	PRT182M016G16□□□□□□
	2200	300	0.10	8	7800	10×18	PRT222M016G18□□□□□□
	2700	300	0.10	8	8000	10×20	PRT272M016G20□□□□□□
	2700	300	0.15	8	8000	12.5×17	PRT272M016H17□□□□□□
	3300	300	0.15	8	9000	12.5×21	PRT332M016H21□□□□□□
25	4700	300	0.15	8	10000	12.5×26	PRT472M016H26□□□□□□
	390	300	0.10	12	3800	5.5×14	PRT391M025D14□□□□□□
	470	300	0.10	12	4100	5.5×16	PRT471M025D16□□□□□□
	470	300	0.10	12	4400	5.5×18	PRT471M025D18□□□□□□
	470	300	0.10	12	4400	6.3×14	PRT471M025E14□□□□□□
	560	300	0.10	12	5000	6.3×16	PRT561M025E16□□□□□□
	680	300	0.10	12	5600	6.3×18	PRT681M025E18□□□□□□
	820	300	0.10	12	6700	8×16	PRT821M025F16□□□□□□
	1000	300	0.10	10	7200	8×20	PRT102M025F20□□□□□□
	1200	300	0.10	10	7400	10×16	PRT122M025G16□□□□□□
	1500	300	0.10	10	7500	10×18	PRT152M025G18□□□□□□
	1800	300	0.10	10	7600	10×20	PRT182M025G20□□□□□□
	1500	300	0.15	10	7600	12.5×17	PRT152M025H17□□□□□□
	2200	300	0.15	9	8400	12.5×21	PRT222M025H21□□□□□□
	3300	300	0.15	9	9300	12.5×26	PRT332M025H26□□□□□□
35	180	300	0.12	15	2900	5.5×14	PRT181M035D14□□□□□□
	220	300	0.12	15	3000	5.5×16	PRT221M035D16□□□□□□
	220	300	0.12	15	3100	5.5×18	PRT221M035D18□□□□□□
	220	300	0.12	15	3100	6.3×14	PRT221M035E14□□□□□□
	330	300	0.12	15	3200	6.3×16	PRT331M035E16□□□□□□
	330	300	0.12	15	3400	6.3×18	PRT331M035E18□□□□□□
	330	300	0.12	15	3600	8×16	PRT331M035F16□□□□□□
	470	300	0.12	15	3900	8×20	PRT471M035F20□□□□□□
	680	300	0.12	15	3900	10×16	PRT681M035G16□□□□□□
	820	300	0.12	15	4100	10×18	PRT821M035G18□□□□□□
	1000	300	0.12	15	4300	10×20	PRT102M035G20□□□□□□
	1000	300	0.15	12	4300	12.5×17	PRT102M035H17□□□□□□
	1500	300	0.15	10	5500	12.5×21	PRT152M035H21□□□□□□
	1800	300	0.15	10	6400	12.5×26	PRT182M035H26□□□□□□
50	82	205	0.12	18	2400	5.5×14	PRT820M050D14□□□□□□
	100	250	0.12	18	2600	5.5×16	PRT101M050D16□□□□□□
	100	250	0.12	18	2900	5.5×18	PRT101M050D18□□□□□□
	100	250	0.12	18	2900	6.3×14	PRT101M050E14□□□□□□
	100	250	0.12	18	3000	6.3×16	PRT101M050E16□□□□□□
	100	250	0.12	15	3200	6.3×18	PRT101M050E18□□□□□□
	150	300	0.12	18	3400	8×16	PRT151M050F16□□□□□□
	220	300	0.12	15	3700	8×20	PRT221M050F20□□□□□□
	220	300	0.12	18	3700	10×16	PRT221M050G16□□□□□□
	330	300	0.12	15	3900	10×18	PRT331M050G18□□□□□□
	330	300	0.12	15	4100	10×20	PRT331M050G20□□□□□□
	330	300	0.15	15	4100	12.5×17	PRT331M050H17□□□□□□
	470	300	0.15	12	4500	12.5×21	PRT471M050H21□□□□□□
	560	300	0.15	12	5000	12.5×26	PRT561M050H26□□□□□□
63	47	148	0.12	18	3400	5.5×14	PRT470M063D14□□□□□□
	56	176.4	0.12	18	3700	5.5×16	PRT560M063D16□□□□□□

W.V. (V)	Capacitance (μ F)	L.C. (μ A,2min)	tg δ (120Hz,20℃)	ESR (m Ω ,100kHz)	Rated Ripple Current(mA,r.m.s)	Size Φ D $\times$ L(mm)	Part Number
63	68	214.2	0.12	18	3900	5.5 $\times$ 18	PRT680M063D18□□□□□□
	68	214.2	0.12	18	2900	6.3 $\times$ 14	PRT680M063E14□□□□□□
	82	258.3	0.12	18	3000	6.3 $\times$ 16	PRT820M063E16□□□□□□
	100	300	0.12	15	3200	6.3 $\times$ 18	PRT101M063E18□□□□□□
	100	300	0.12	18	3400	8 $\times$ 16	PRT101M063F16□□□□□□
	150	300	0.12	15	3700	8 $\times$ 20	PRT151M063F20□□□□□□
	180	300	0.12	18	3700	10 $\times$ 16	PRT181M063G16□□□□□□
	220	300	0.12	15	3900	10 $\times$ 18	PRT221M063G18□□□□□□
	270	300	0.12	15	4100	10 $\times$ 20	PRT271M063G20□□□□□□
	220	300	0.15	15	4000	12.5 $\times$ 17	PRT221M063H17□□□□□□
	330	300	0.15	12	4300	12.5 $\times$ 21	PRT331M063H21□□□□□□
	470	300	0.15	12	4700	12.5 $\times$ 26	PRT471M063H26□□□□□□
80	56	224	0.12	20	3200	8 $\times$ 16	PRT560M080F16□□□□□□
	82	300	0.12	18	3500	8 $\times$ 20	PRT820M080F20□□□□□□
	100	300	0.12	20	3500	10 $\times$ 16	PRT101M080G16□□□□□□
	120	300	0.12	18	3700	10 $\times$ 18	PRT121M080G18□□□□□□
	150	300	0.12	15	3900	10 $\times$ 20	PRT151M080G20□□□□□□
	100	300	0.15	15	3900	12.5 $\times$ 17	PRT101M080H17□□□□□□
	150	300	0.15	12	4100	12.5 $\times$ 21	PRT151M080H21□□□□□□
	220	300	0.15	12	4500	12.5 $\times$ 26	PRT221M080H26□□□□□□
100	39	195	0.12	20	3000	8 $\times$ 16	PRT390M100F16□□□□□□
	47	235	0.12	18	3300	8 $\times$ 20	PRT470M100F20□□□□□□
	68	300	0.12	20	3300	10 $\times$ 16	PRT680M100G16□□□□□□
	82	300	0.12	18	3500	10 $\times$ 18	PRT820M100G18□□□□□□
	100	300	0.12	15	3700	10 $\times$ 20	PRT101M100G20□□□□□□
	82	300	0.15	18	3700	12.5 $\times$ 17	PRT820M100H17□□□□□□
	100	300	0.15	15	3900	12.5 $\times$ 21	PRT101M100H21□□□□□□
	150	300	0.15	15	4200	12.5 $\times$ 26	PRT151M100H26□□□□□□

* For the last 6 digits of the part number, please refer to the part number system on page 125.

✧ Frequency Coefficient for Ripple Current

Frequency	120Hz $\leq$ freq.<1KHz	1KHz $\leq$ freq.<10KHz	10KHz $\leq$ freq.<50KHz	50KHz $\leq$ freq.<100KHz	100KHz $\leq$ freq.<300KHz
Coefficient (C $\leq$ 1000 μ F)	0.05	0.3	0.7	0.85	1
Coefficient (3000 μ F $\geq$ C>1000 μ F)	0.1	0.33	0.85	1	1
Coefficient (C>3000 μ F)	0.12	0.35	1	1	1