

Standard

Features

- ◆ 105°C, 2000 hours
- ◆ High stability and reliability
- ◆ Low ESR、High ripple current capability

Application:

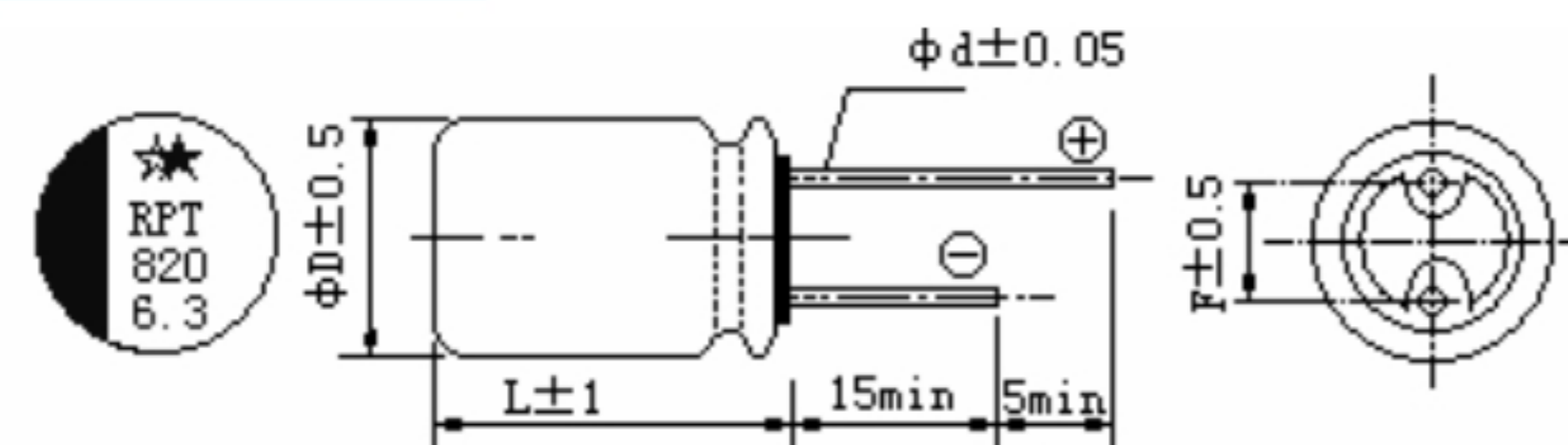
suitable for DC-CD converters, voltage regulators, decoupling application for computer motherboard, etc.



Specifications

Items	Performance Characteristics	
Operating Temperature Range	-55~+105°C	
Rated Voltage Range	4.0~20V.DC	
Nominal Capacitance Range	47~1500 μ F	
Capacitance Tolerance	±20% (120Hz, 20°C)	
Leakage Current (20°C)	after 2 minutes' application of rated voltage, the leakage current is not more than 0.2CV(μ A)	
Dissipation Factor(120Hz, 20°C)	Less than the specified value at 120Hz, 20°C	
Equivalent Series Resistance	Less than the specified value at 100KHz, 20°C	
Ripple Current	Less than the specified value	
Load Life(105°C, 2000hrs)	After applying rated voltage for 2000 hours at +105°C, capacitors meet the characteristics requirements listed at right.	
	Capacitance Change	Within ±20% of initial value
	Leakage Current	Less than the specified value
	Dissipation Factor	Less than 150% of the specified value
Damp heat( Steady state) (60°C, 90~95%RH, 1000hrs)	60°C, 90 to 95%RH, 1000h, No applied voltage capacitors meet the characteristics requirements listed at right.	
	Capacitance Change	Within ±20% of Initial value
	Leakage Current	Less than the specified value
	Dissipation Factor	Less than 150% of the specified value
	Equivalent Series Resistance	Less than 150% of the specified value

Case size table



φD×L	φD	L	F	φd
8×8	8	8	3.5	0.6
8×12	8	12	3.5	0.6
10×12	10	12	5.0	0.6

Part number & Specifications

Rated Voltage (V)	Capacitance (μ F)	Part Number	ESR 100KHz to 300KHz (mΩ max)	Ripple Current 100KHz (mA) at 105°C	Tan δ (120Hz) (max)	Leakage Current (max) (μ A)	Size φD×L (mm)	
2.5	680	RPT0E681M0808	14	4840	0.14	340	8×8	
	820	RPT0E821M0808	14	4840	0.14	410	8×8	
		RPT0E821M0812	12	5040	0.12	410	8×11.5	
	1000	RPT0E102M0812	12	4840	0.12	500	8×11.5	
	1500	RPT0E152M1012	12	5040	0.12	937	10×12.5	
	4	560	RPT0G561M0808	14	4080	0.14	448.0	8×8
		680	RPT0G681M0808	13	4840	0.14	544.0	8×8
		820	RPT0G821M0808	14	4840	0.14	656.0	8×8
RPT0G821M0812			12	5040	0.12	656.0	8×11.5	
	1000	RPT0G102M1012	12	5040	0.12	800	10×12.5	
	1200	RPT0G122M1012	12	5040	0.15	960	10×12.5	
	6.3	330	RPT0J331M0808	25	3000	0.14	416	8×8
		390	RPT0J391M0808	18	3000	0.14	490	8×8
470		RPT0J471M0808	18	3200	0.14	592	8×8	
		RPT0J471M0812	16	3810	0.12	592	8×11.5	
560		RPT0J561M0808	16	4000	0.14	706	8×8	
		RPT0J561M0812	14	4050	0.12	706	8×11.5	
680		RPT0J681M0808	15	4200	0.14	856	8×8	
		RPT0J681M0812	13	4840	0.12	856	8×12.5	
820	RPT0J821M1012	12	5040	0.15	1033	10×12.5		
1000	RPT0J102M1012	12	6100	0.15	1260	10×12.5		
10	220	RPT1A221M0808	27	3000	0.14	440.0	8×8	
	270	RPT1A271M0808	20	4000	0.14	540	8×8	
	330	RPT1A331M0812	21	4140	0.12	660	8×11.5	
	470	RPT1A471M1012	15	4510	0.12	940	10×12.5	
	560	RPT1A561M1012	14	5000	0.12	1120	10×12.5	
	820	RPT1A821M1012	14	5600	0.12	1640	10×12.5	
16	180	RPT1C181M0808	24	4200	0.14	576	8×8	
	180	RPT1C181M0812	21	4330	0.12	576	8×11.5	
	270	RPT1C181M0812	18	4800	0.12	864	8×11.5	
	330	RPT1C331M1012	15	5050	0.12	1056	10×12.5	
20	47	RPT1D470M0812	28	3400	0.12	188.0	8×12	
	68	RPT1D680M0812	25	3600	0.12	272	8×12	
	100	RPT1D101M1012	15	4500	0.12	400	10×12	

Frequency coefficient of allowable ripple current

Frequency	120Hz≤f<1KHz	1KHz≤f<10KHz	10KHz≤f<100KHz	100kHz≤f<500KHz
Coefficient	0.05	0.30	0.70	1.00