

PT series

+125°C, High Temperature(高耐温, +125°C)

◆ FEATURES

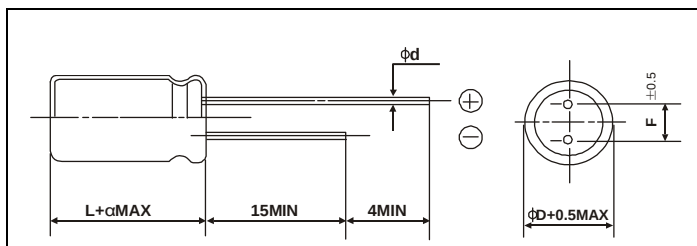
- High Temperature, Long-Life Time
- Endurance: 2000 hours at 125°C
- RoHS Compliant and lead-free.
- Recommended Application: Lamps Power, LED Power, Service Equipment



◆ SPECIFICATIONS

Items	Characteristics				
Category Temperature Range	-55~+125℃				
Rated Voltage Range	10~35V.DC				
Nominal Capacitance Rance	10~1500μ F				
Capacitance Tolerance	± 20%(120Hz,+20℃)				
Leakage Current(MAX, 20℃)	I=0.2CV or 500uA,whichever is greater. after 2 minutes with rated working voltage				
Dissipation Factor(MAX) Tanδ (20℃,120Hz)	Rated Voltage(V)	10	16	25	35
	Tanδ (Max)	0.12			
ESR(100K~300KHz, 20℃)	Value in characteristics table				
Temperture Characteristic (Impedance Ratio at 100KHz	Z(+125℃)/ Z(+20℃)≤1.25 Z(-55℃)/ Z(+20℃)≤1.25				
Load Life	After applying rated voltage with max ripple current for 2000 hrs at 125℃,the capacitors shall meet the following requirements				
	Capacitance Change	Within ±20% of the initial value			
	Dissipation Factor	Not more than150% of the specified value			
	ESR	Not more than150% of the specified value			
	Leakage Current	Not more than the specified value			
Humidity Test	After subjecting 90 to 95% RH for 2000hours at 60℃,no voltage,The capacitors shall meet The requirement as Endurance.				
Surge Test	After subjecting to 1000 cycles each consisting of charge with the surge voltage specified at Normal temperature for 30 seconds through a protective resistor and discharge for 5 minutes 30 seconds,the capacitors shall meet the following requirements.				
	Capacitance Change	Within ±20% of the initial value			
	Dissipation Factor	Not more than150% of the specified value			
	ESR	Not more than150% of the specified value			
	Leakage Current	Not more than the specified value			

◆ CASE SIZE TABLE



ΦD	5	6.3	8	10
F	2.0	2.5	3.5	5.0
Φd	0.5		0.6	
α	L+1.0 max			

◆ STANDARD RATINGS

V.DC (SV)	Cap	Size	ESR	Ripple Current	Leakage Current
	(uF)	ΦD×L(mm)	(mΩ /20°C,100kHz)	(mArms/125°C,100kHz)	(uA/max)
10V (11.5)	47	6.3×9	25	2900	500
	47	6.3×11	25	2900	500
	68	6.3×9	25	2900	500
	100	5×8	45	2820	500
	100	5×11	30	2820	500
	100	6.3×9	25	2820	500
	220	5×11	30	2820	500
	220	6.3×6	30	2700	500
	220	6.3×11	15	3200	500
	220	8×9	12	3200	500
	270	6.3×9	25	4420	640
	330	6.3×9	25	2820	660
	330	6.3×11	20	2820	660
	330	8×9	11	5000	660
	330	8×11	11	5080	660
	390	8×11	9	5080	780
	470	6.3×11	20	3160	940
	470	8×9	11	3900	940
	470	8×11	11	3900	940
	470	10×12	10	6100	940
	560	6.3×11	15	3160	1120
	560	8×9	10	5600	1120
	560	8×11	10	6100	1120
	560	10×10	10	5600	1120
	560	10×12	10	6100	1120
	680	6.3×11	15	3900	1360
	680	8×11	12	3900	1360
	680	10×10	12	6100	1360
	680	10×12	10	6100	1360
	820	8×11	12	3900	1640
	1000	8×11	12	3900	2000
	1000	10×12	10	6100	2000
	1200	8×11	12	3900	2400
	1200	10×12	10	6100	2400
	1500	10×12	10	6100	3000
16V (18.4)	10	6.3×6	40	1810	500
	47	5×7	40	1810	500
	47	6.3×6	40	1810	500
	47	6.3×9	25	2820	500
	82	5×8	40	1810	500
	100	5×11	30	2490	500
	100	6.3×6	24	2490	500
	100	6.3×9	24	2820	500
	100	6.3×11	24	2820	500
	120	6.3×9	24	2820	500
	150	6.3×6	25	2820	500

STANDARD RATINGS

V.DC (SV)	Cap	Size	ESR	Ripple Current	Leakage Current
	(μ F)	$\Phi D \times L$ (mm)	($m\Omega / 20^\circ\text{C}, 100\text{kHz}$)	($m\text{Arms}/125^\circ\text{C}, 100\text{kHz}$)	($\mu\text{A}/\text{max}$)
16V (18.4)	150	6.3×9	25	2820	500
	180	6.3×9	16	2820	576
	180	6.3×9	16	2820	576
	220	6.3×9	20	2820	704
	220	6.3×11	20	2820	704
	220	8×9	14	3300	704
	220	8×11	15	3300	704
	270	6.3×11	20	3160	864
	270	8×9	11	5080	864
	270	8×11	11	5080	864
	270	10×10	11	5080	864
	330	6.3×11	25	2820	1056
	330	8×9	13	4700	1056
	330	8×11	11	4700	1056
	330	10×10	16	4720	1056
	330	10×12	16	4720	1056
	470	8×9	16	3300	1504
	470	8×11	11	5060	1504
	470	10×10	10	6100	1504
	470	10×12	10	6100	1504
	560	10×10	10	6100	1792
	560	10×12	10	6100	1792
	680	10×12	10	6100	2176
	820	10×12	10	6100	2624
	1000	10×12	10	6100	3200
	1200	10v12	10	6100	3840
20V (23)	33	6.3×7	50	2000	500
	100	8×11	20	2750	500
	120	6.3×11	24	2000	500
	150	10×12	30	2620	600
	180	8×11	24	2750	720
	180	10×12	20	2820	720
	360	8×11	40	2750	1440
25V (28.7)	22	8×9	32	1300	500
	33	8×9	30	2050	500
	47	8×9	30	2100	500
	58	8×9	30	2150	500
	68	8×9	30	2150	500
	100	6.3×11	25	2150	500
	100	8×9	25	2150	500
	100	8×11	20	2750	500
	100	10×12	20	2750	500
	120	8×9	30	2750	600
	120	8×11	24	2750	600
	150	8×11	20	2750	900
	180	8×11	20	2750	1100

STANDARD RATINGS

V.DC (SV)	Cap	Size	ESR	Ripple Current	Leakage Current
	(uF)	ΦD×L(mm)	(mΩ /20℃,100kHz)	(mArms/125℃,100kHz)	(uA/max)
25V (28.7)	220	8×11	20	2750	1100
	220	10×12	20	2750	1100
	270	8×11	20	2750	1350
	330	8×12	20	2700	1650
	330	10×12	20	2700	1650
	360	8×12	40	2220	1800
	470	10×12	20	2700	2350
35V (40.2)	10	6.3×6	70	1300	500
	10	6.3×9	50	1300	500
	15	6.3×6	60	1300	500
	15	6.3×9	50	1800	500
	18	5×7	50	1100	500
	22	5×7	50	1100	500
	22	6.3×6	45	1300	500
	33	6.3×7	50	1300	500
	35	6.3×7	45	1300	500
	47	6.3×9	50	1800	500
	47	8×9	40	1800	500
	56	8×11	40	1800	500
	100	6.3×11	50	1800	700
	10	10×12	40	2000	700
	120	8×11	50	1800	840
	150	10×12	40	2000	1050
	220	10×12	50	2500	1540
	270	10×12	50	2500	1890
	330	10×12	50	2500	2310
	470	10×12	40	2500	3290