

PT Series

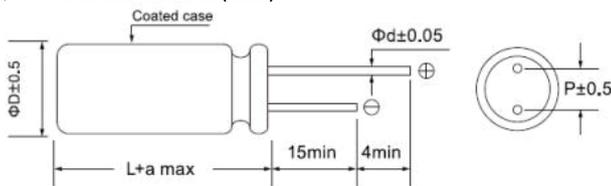


- Recommended Applications: High temperature resistant products
- Load life 2,000 hours at 125°C
- RoHS Compliant

◆ SPECIFICATIONS

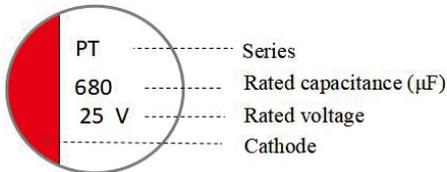
Item	Performance Characteristics
Category Temperature Range	-55 ~ +125°C
Working Voltage Range	6.3 ~ 25Vdc
Capacitance Range	22 ~ 1,000 μF
Capacitance Tolerance	±20% (at 20°C and 120Hz)
Dissipation Factor (tanδ) (at 20°C, 120Hz)	Rated Voltage (V) 6.3~25
	Tanδ(Max) 0.12
Leakage Current	I=0.2CV or 300 μA, whichever is greater I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Impress the rated voltage for 2 minutes
Low Temperature Characteristics Impedance Ratio(MAX)	Z(-25°C) / Z(+25°C) ≤ 1.15 at 100KHz Z(-55°C) / Z(+25°C) ≤ 1.25 at 100KHz
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 125°C.
	Capacitance change ≡ ±20% of the initial value
	Dissipation factor(tanδ) ≡ 150% of the specified value
	Equivalent Series Resistance ≡ 150% of the specified value
Moisture Resistance	The following requirements shall be satisfied when the capacitor are restored to 20°C after exposing them for 1,000 hours at 60°C 90 to 95% RH.
	Capacitance change ≡ ±20% of the initial value
	Dissipation factor(tanδ) ≡ 150% of the specified value
	Equivalent Series Resistance ≡ 150% of the specified value
Leakage current	≡ specified value

◆ DIMENSIONS (mm)



Size	D	L	a	Φd	P
0608	6.3	8	1.0	0.6	2.5
0613	6.3	13	1.0	0.6	2.5
0808	8	8	1.0	0.6	3.5
0811	8	11	1.0	0.6	3.5
0812	8	12	1.0	0.6	3.5
0815	8	15	1.5	0.6	3.5
1010	10	10	1.0	0.6	5.0
1012	10	12	1.0	0.6	5.0

◆ Marking



◆ PART NUMBER SYSTEM(Example :25V 680μF)

P	P	T	1	E	6	8	1	M	0	8	1	5	0	0	N
														Print color(Red)	
														Lead forming Type code	
														Size code(0815 : 8×15)	
														Capacitance tolerance code(M: ±20%)	
														Capacitance code (680μF)	
														Voltage code(25V)	
														Series code(PT)	
														Category code(P)	

CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS

TOPAZCON

PT Series

◆ Case size & Permissible

WV (Vdc)	Cap (μF)	Case Size ΦD×L (mm)	Max.Rated ripple current mArms@125°C100KHz	Max.Rated ripple current mArms@105°C100KHz	ESR 100~300KHz (mΩmax)
6.3	220	6.3×6	537	1700	45
	470	6.3×8	810	2560	35
		8×8	1332	4210	15
	560	8×8	1332	4210	15
	680	8×8	1332	4210	15
	820	8×8	1332	4210	15
	1000	8×11	1721	5440	15
10	180	6.3×8	790	2500	25
	220	8×8	1100	3600	20
	330	8×8	1300	4200	20
	470	8×8	1300	4200	20
	560	8×8	1300	4200	20
	680	8×11	1580	5000	15
16	100	6.3×8	512	1620	30
	150	6.3×8	670	2120	30
	180	8×8	1150	3600	25
	220	8×8	1150	3600	25
	270	8×11	1200	4000	20
		8×11	1200	4000	20
	330	10×12	1500	5000	16
470	10×12	1500	5000	16	
25	22	6.3×8	458	1450	40
	47	6.3×8	598	1890	40
	100	8×11	1050	3320	24
		10×12	1367	4320	20
	220	8×11	1050	3320	24
330	10×12	1367	4320	20	

◆ RIRIPPLE CURRENT MULTIPLIERS
Frequency Multipliers

Vdc	Frequency (Hz)			
	120	1K	10K	100K
6.3~25	0.05	0.3	0.7	1.0