

PC Series

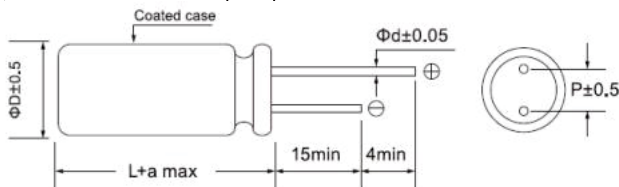
- Recommended Applications: Quick Charge special series
- Load life 2,000 hours at 105°C
- RoHS Compliant



◆ SPECIFICATIONS

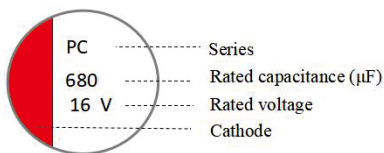
Item	Performance Characteristics		
Category Temperature Range	-55 ~ +105°C		
Working Voltage Range	6.3 ~ 25Vdc		
Capacitance Range	100 ~ 2,200 μF		
Capacitance Tolerance	±20% (at 20°C and 120Hz)		
Dissipation Factor (tanδ) (at 20°C, 120Hz)	Rated Voltage (V)	6.3~10	16~25
	Tanδ(Max)	0.08	0.12
Leakage Current	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 105°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	
	Leakage current	≅ specified value	

◆ DIMENSIONS (mm)

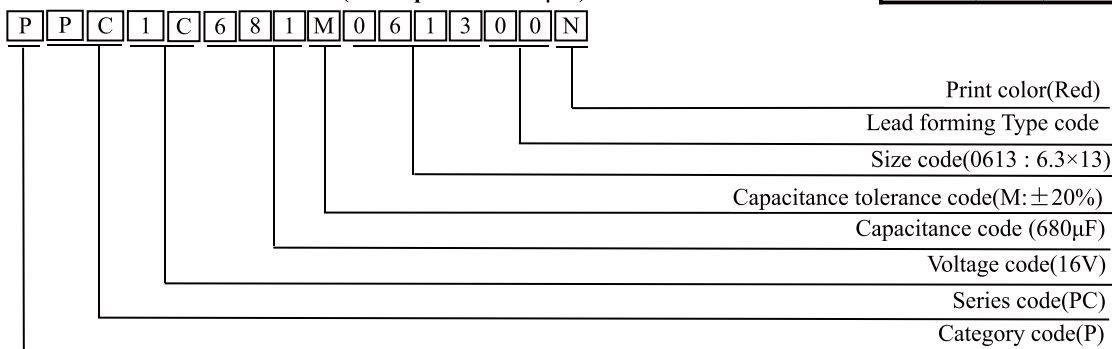


Size	D	L	a	Φd	P
0507	5	7	1.5	0.5	2.0
0509	5	9	1.0	0.5	2.0
5R09	5.5	9	1.0	0.5	2.5
0605	6.3	5	1.0	0.45	2.5
0606	6.3	6	1.5	0.5	2.5
0607	6.3	7	1.5	0.5	2.5
0608	6.3	8	1.0	0.6	2.5
0611	6.3	11	1.0	0.5	2.5
0613	6.3	13	1.0	0.6	2.5
0808	8	8	1.0	0.6	3.5
0811	8	11	1.0	0.6	3.5
0812	8	12	1.0	0.6	3.5
0815	8	15	1.5	0.6	3.5
1010	10	10	1.0	0.6	5.0
1012	10	12	1.0	0.6	5.0
1016	10	16	1.5	0.6	5.0

◆ Marking



◆ PART NUMBER SYSTEM (Example : 16V 680μF)



CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS

TOPAZCON

PC Series

◆ Case size & Permissible

WV (Vdc)	Cap (μF)	Case Size ΦD×L (mm)	Max.Rated ripple current mArms@105°C100KHz	ESR 100~300KHz (mΩmax)
6.3	270	5×7	2500	15
		5×7	2500	15
	330	5.5×8	3100	15
		5×9	3100	11
	470	6.3×8	3800	10
		8×8	4200	8
		6.3×8	4000	10
	680	6.3×9	3500	8
		6.3×9	3500	8
	820	8×8	4800	8
		6.3×11	4200	10
	1000	8×8	4770	10
		8×11	5600	7
		8×11	5600	7
1500	10×10	5050	8	
	10×12	5600	7	
7.5	390	5×9	3100	15
	470	5.5×9	3500	11
	500	5.5×9	3500	11
	680	6.3×9	3500	11
		8×8	4600	10
	820	6.3×9	3500	11
	1000	6.3×11	3800	10
10	220	6.3×6	2700	20
	330	6.3×8	2820	15
		6.3×9	3100	15
	470	8×8	4200	11
		6.3×9	3100	15
	680	6.3×11	3800	12
820	8×11	5600	8	

WV (Vdc)	Cap (μF)	Case Size ΦD×L (mm)	Max.Rated ripple current mArms@105°C100KHz	ESR 100~300KHz (mΩmax)
16	100	5×7	2000	22
	150	5×9	2500	20
	220	6.3×8	2820	15
	270	6.3×8	3100	15
	330	5.5×9	2800	15
		6.3×9	3100	20
	470	5.5×11	2800	15
		6.3×11	3500	15
		8×11	5000	11
	560	6.3×11	3500	15
	680	6.3×13	4100	15
		8×11	5000	11
	820	8×12	5000	10
	1000	8×15	5000	10
		10×12	6100	10
	25	100	5×9	1890
220		5.5×11	1900	20
		6.3×9	1500	35
270		6.3×11	2000	20
330		6.3×13	2400	20
		8×11	3000	25
470		6.3×14	3800	15
		8×11	3000	25
		10×12	4200	25
560		8×15	4100	20
		10×12	4200	25
680		8×15	4500	20
	10×13	4300	20	
820	8×15	4500	20	
	10×16	5000	15	
1000	10×16	5000	15	

◆ RIRIPPLE CURRENT MULTIPLIERS
Frequency Multipliers

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