

PC Series

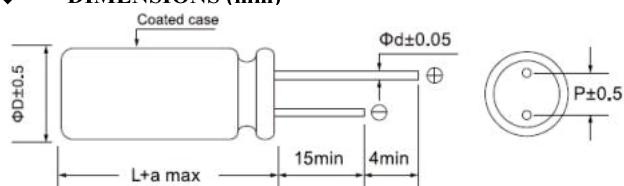
- Recommended Applications: Quick Charge special series
- Load life 2,000 hours at 105°C
- RoHS Compliant



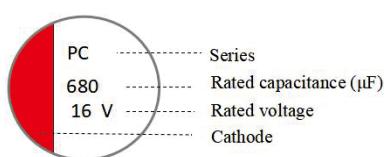
◆ SPECIFICATIONS

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	
	Leakage current	≤ 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)

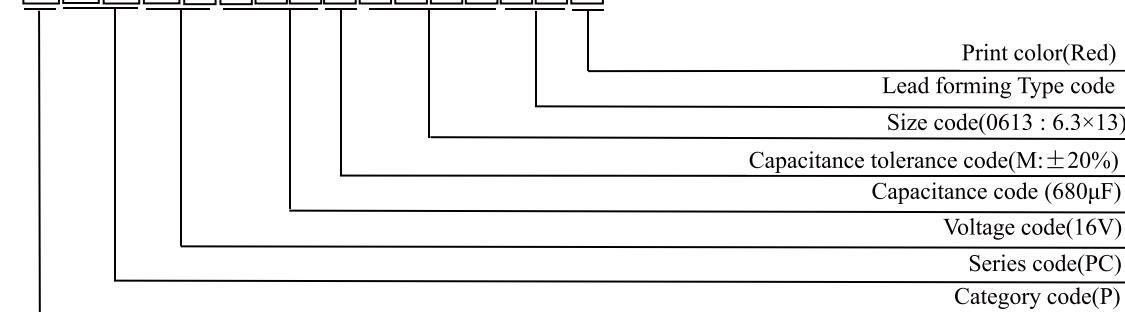


◆ Marking



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

P P C 1 C 6 8 1 M 0 6 1 3 0 0 N





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
	330	5×7	2500	15
		5.5×8	3100	15
		5×9	3100	11
	470	6.3×8	3800	10
		8×8	4200	8
	560	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
	1200	8×11	5600	7
		8×11	5600	7
	1500	10×10	5050	8
	2200	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
10	1000	6.3×11	3800	10
	220	6.3×6	2700	20
	330	6.3×8	2820	15
		6.3×9	3100	15
	470	8×8	4200	11
	560	6.3×9	3100	15
	680	6.3×11	3800	12
8.2	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
		5.5×11	2800	15
	470	6.3×11	3500	15
		8×11	5000	11
	560	6.3×11	3500	15
		6.3×13	4100	15
	680	8×11	5000	11
	820	8×12	5000	10
		8×15	5000	10
	1000	10×12	6100	10
	100	5×9	1890	25
		5.5×11	1900	20
25	220	6.3×9	1500	35
	270	6.3×11	2000	20
		6.3×13	2400	20
	330	8×11	3000	25
		6.3×14	3800	15
	470	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