

PE Series

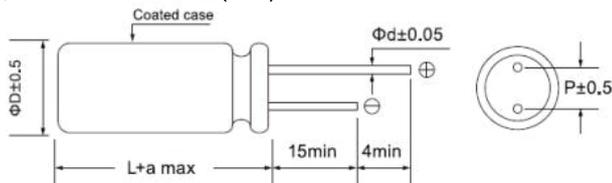


- Standard
- Load life 2,000 hours at 105°C
- RoHS Compliant

◆ SPECIFICATIONS

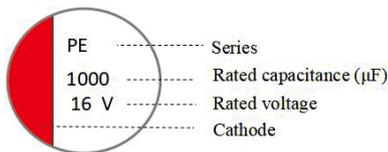
Item	Performance Characteristics		
Category Temperature Range	-55 ~ +105°C		
Working Voltage Range	2.5 ~ 25Vdc		
Capacitance Range	22 ~ 2,200 μF		
Capacitance Tolerance	±20% (at 20°C and 120Hz)		
Dissipation Factor (tanδ) (at 20°C, 120Hz)	Rated Voltage (V)	2.5~10	16~25
	Tanδ(Max)	0.08	0.12
Leakage Current	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	
	Equivalent Series Resistance	≅ 150% of the specified value	
Leakage current	≅ specified value		

◆ DIMENSIONS (mm)

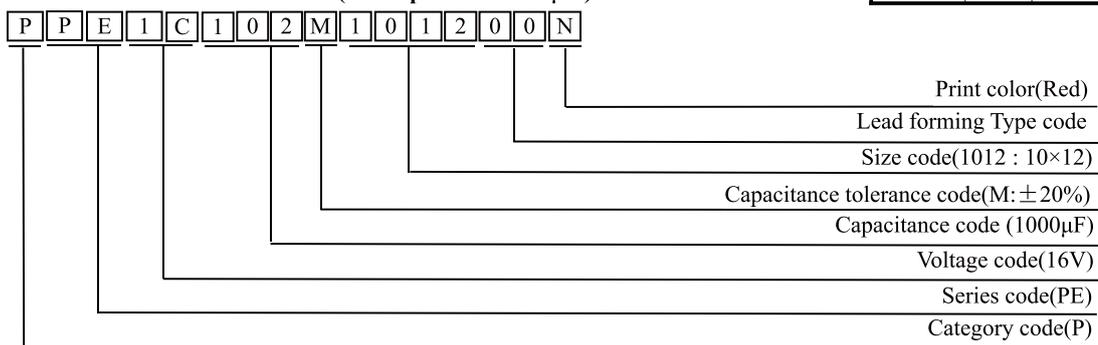


Size	D	L	a	Φd	P
0507	5	7	1.5	0.50	2.0
0509	5	9	1.0	0.50	2.0
5R09	5.5	9	1.0	0.50	2.5
0605	6.3	5	1.0	0.45	2.5
0606	6.3	6	1.5	0.50	2.5
0607	6.3	7	1.5	0.50	2.5
0608	6.3	8	1.0	0.60	2.5
0609	6.3	9	1.0	0.50	2.5
0611	6.3	11	1.0	0.50	2.5
0808	8	8	1.0	0.60	3.5
0811	8	11	1.0	0.60	3.5
0812	8	12	1.0	0.60	3.5
0815	8	15	1.5	0.60	3.5
1010	10	10	1.0	0.60	5.0
1012	10	12	1.0	0.60	5.0
1016	10	16	1.5	0.60	5.0

◆ Marking



◆ PART NUMBER SYSTEM(Example : 16V 1000μF)



CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS

TOPAZCON

PE Series

◆ Case size & Permissible

WV (Vdc)	Cap (μF)	Case Size ΦD×L (mm)	Max.Rated ripple current mArms@105°C100KHz	ESR 100~300KHz (mΩ max)
2.5	560	6.3×6	4500	15
		6.3×8	5000	10
	680	6.3×8	5000	10
		8×8	5500	8
	1500	10×12	6100	7
2200	10×12	6100	7	
4	560	6.3×8	4500	10
		6.3×8	4500	10
	680	8×11	5600	7
		6.3×9	4800	10
	820	8×11	5600	8
		8×11	5600	8
	1000	10×12	5600	8
	1500	8×11	5600	8
2200	10×12	5600	8	
6.3	47	6.3×5	1800	30
		6.3×5	1800	30
	100	5×7	2500	15
		5×7	2500	15
	220	6.3×5	2200	30
		6.3×6	3160	20
	270	5×7	2500	15
		6.3×7	3500	15
	330	5×7	2500	15
		6.3×5	2200	30
		6.3×6	3390	22
	470	5×9	3100	11
		6.3×8	3800	10
		8×8	4200	8
	560	6.3×8	4000	10
		8×8	4800	12
		6.3×9	3500	8
		8×11	5600	7
	680	6.3×9	3500	8
		8×11	5600	7
		10×12	5600	7
	820	6.3×11	4200	10
		8×8	4770	10
		8×11	5600	7
		8×11	5600	7
		10×10	5050	8
	1500	10×12	5600	7
		10×12	5600	7
		10×10	5050	8
		10×12	5600	7
2200	10×12	5600	7	

WV (Vdc)	Cap (μF)	Case Size ΦD×L (mm)	Max.Rated ripple current mArms@105°C100KHz	ESR 100~300KHz (mΩ max)	
7.5	390	5×9	3100	15	
	470	5.5×9	3500	11	
	500	5.5×9	3500	11	
	680	6.3×9	3500	12	
10	100	5×7	2500	15	
		6.3×5	2320	30	
	150	6.3×5	2320	30	
		6.3×8	2820	15	
	330	6.3×8	2820	15	
		6.3×9	3100	15	
	470	8×8	4200	11	
		8×8	4200	11	
	560	8×8	4200	11	
		8×11	5600	8	
	820	8×11	5000	8	
		10×12	6100	8	
	16	22	5×7	2200	30
			6.3×5	1650	30
		47	6.3×5	1650	30
6.3×8			2490	24	
100		6.3×8	2820	24	
		6.3×8	2820	15	
180		8×8	3500	15	
		6.3×8	3100	15	
270		8×8	4200	15	
		8×11	5000	11	
		6.3×9	3100	20	
330		8×11	5000	11	
		10×12	5400	10	
		6.3×11	3500	15	
470		8×11	5000	11	
	10×10	5050	14		
	10×12	5400	10		
820	10×12	6100	10		
	8×15	5000	10		
	10×12	6100	10		
25	22	6.3×5	1200	45	
		6.3×5	1200	45	
		6.3×8	1500	35	
	47	6.3×8	1500	35	
		8×8	2200	30	
	100	8×8	2200	30	
		8×8	2200	30	
	220	8×8	2200	30	
		8×11	3600	25	
	470	10×12	4200	25	

◆ RIRIPPLE CURRENT MULTIPLIERS
Frequency Multipliers

Vdc	Frequency (Hz)			
	120	1K	10K	100K
2.5~25	0.05	0.3	0.7	1.0