

PD Series

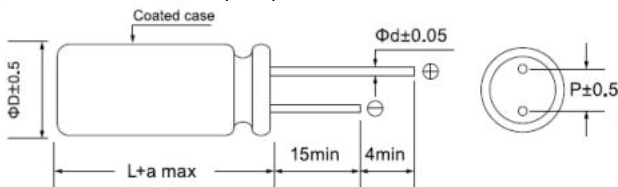
- Recommended Applications: High Voltage and Large capacitance Series
Load life 2,000 hours at 105°C
- RoHS Compliant



◆ SPECIFICATIONS

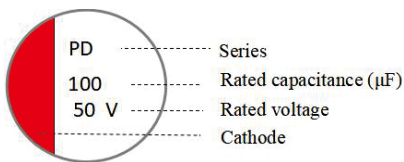
Item	Performance Characteristics
Category Temperature Range	-55 ~ +105°C
Working Voltage Range	35 ~ 63Vdc
Capacitance Range	10 ~ 680 μF
Capacitance Tolerance	±20% (at 20°C and 120Hz)
Dissipation Factor (tanδ) (at 20°C, 120Hz)	Rated Voltage (V) 35~63
	Tanδ(Max) 0.12
Leakage Current	I=0.2CV or 300 μA, 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 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)

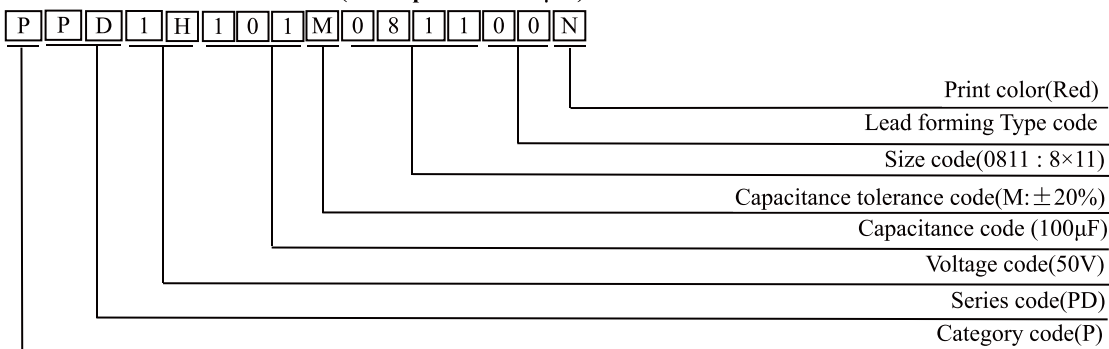


Size	D	L	a	Φd	P
0509	5	9	1.0	0.5	2.0
5R09	5.5	9	1.0	0.5	2.5
0608	6.3	8	1.0	0.6	2.5
0613	6.3	13	1.0	0.5	2.5
0614	6.3	14	1.0	0.6	2.5
0808	8	8	1.0	0.6	3.5
0811	8	11	1.0	0.6	3.5
0812	8	12	1.0	0.6	3.5
0815	8	15	1.5	0.6	3.5
1010	10	10	1.0	0.6	5.0
1012	10	12	1.0	0.6	5.0
1016	10	16	1.5	0.6	5.0

◆ Marking



◆ PART NUMBER SYSTEM(Example : 50V 100μF)



CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS

TOPAZCON

PD Series

◆ Case size & Permissible

WV (Vdc)	Cap (μF)	Case Size ΦD×L (mm)	Max.Rated ripple current mArms@105°C100KHz	ESR 100~300KHz (mΩmax)
35	10	6.3×8	1000	45
	22	6.3×8	1000	45
	33	6.3×6	800	50
		6.3×8	1000	45
	47	5×9	1200	40
		6.3×8	1200	45
	68	6.3×8	1200	45
	100	5.5×9	1800	40
		6.3×8	1200	45
		8×8	2000	40
		8×11	2300	35
	150	8×11	2300	35
	220	8×11	2400	35
		10×10	2400	40
	270	10×12	2500	30
330	10×12	2500	30	
470	10×13	2500	30	
680	10×16	3000	25	
50	33	8×8	1300	50
	47	8×8	1300	50
		8×11	1500	45
	68	8×11	1500	×
	100	10×10	1500	50
		10×12	2200	40
	120	10×12	2200	40
220	10×16	2800	30	
63	10	6.3×8	900	65
	33	8×8	1100	55
	47	8×8	1100	55
		8×11	1300	50
	56	10×12	1500	45
	82	10×12	2000	45
	100	10×12	2000	45
150	10×16	2300	35	

◆ RIRIPPLE CURRENT MULTIPLIERS
Frequency Multipliers

Vdc	Frequency (Hz)			
	120	1K	10K	100K
35~63	0.05	0.3	0.7	1.0