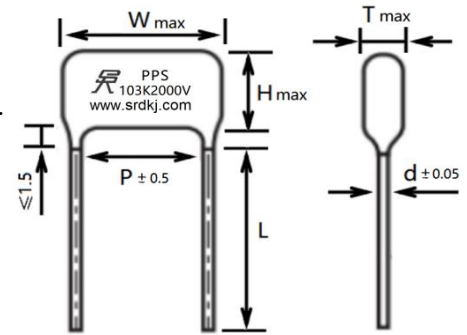


High Voltage Metallized Polypropylene Film / Foil Capacitors Capacitors

■ Structure

- Dielectric: Metallized Polypropylene film.
- Electrode: Special process metal vacuum evaporation layer.
- Encapsulate: Flame retardant epoxy resin coating, conforming to UL94 V-0.



■ Typical Application

- High frequency, DC, AC, Pulse high current occasions.
E.g. Lamps, Power Supplies, Display and TV lines reverse circuits, Electronic Rectifiers, Energy-saving Lamps, etc.

■ Characteristics

- Good self-healing performance, low dissipation at high frequency, low temperature rise, high impact strength.
Internal tandem structure, high voltage, can withstand high current.

■ Conform to RoHS standards

■ Technical Parameter

Reference Standards	GB/T10188 (IEC 60384-13)	
Climatic Category	40/105/21	
Rated Temperature	85°C	
Operating Temperature Range	-40°C~105°C (+85°C to +105°C: Decreasing Factor 1.25% per °C for U_R)	
Rated Voltage	1000Vdc、1600Vdc、2000Vdc	
Capacitance Range	0.00056 μ F ~ 0.1 μ F	
Capacitance Tolerance	J ($\pm 5\%$)、K ($\pm 10\%$)	
Voltage Proof	2.0 U_R (5s)	
Dissipation Factor	≤ 0.0020 (10kHz)	20°C, 1V
Insulation Resistance	$C_R \leq 0.1\mu F, R \geq 30000M\Omega$ $C_R > 0.1\mu F, RC \geq 3000S$	$U_R \leq 500V$, test voltage:100V $U_R > 500V$, test voltage:500V (20°C, 1min)
Note: Products capacitance can be customized. Details specific parameters are according to Approval Sheet.		

Part Number System

The 18 digits part number is formed as follow:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
 P P S 1 0 3 K 3 D 2 9 1 1 1 9 8 0 0

Digit 1 to 3	Series Code: PPS=CBB81
Digit 4 to 6	Rated Capacitance Value: 103=10x10 ³ pF=0.01μF
Digit 7	Capacitance Tolerance: J=±5%; K=±10%; M= ±20%
Digit 8 to 9	D.C. Rated Voltage: 3A=1000V; 3C=1600V; 3D=2000V
Digit 10 to 15	Dimensions Code: See The Dimension Comparison Table
Digit 16	Lead-wire Diameter Code: 6=0.6; 8=0.8
Digit 17 to 18	Internal Recognition Code

Dimensions (mm) (Rated Voltage: 1000V)

μ F	Part Number	W	T	H	P	d	μ F	Part Number	W	T	H	P	d
0.001	PPS102K3A190510600	19	6	10	15	0.6	0.01	PPS103K3A241016800	24	9.5	16.5	20	0.8
0.0012	PPS122K3A190510600	19	6	10.5	15	0.6	0.012	PPS123K3A241117800	24	10.5	17.5	20	0.8
0.0015	PPS152K3A190611600	19	6	11	15	0.6	0.015	PPS153K3A241219800	24	12	18.5	20	0.8
0.0018	PPS182K3A190611600	19	6.5	11.5	15	0.6	0.018	PPS183K3A241221800	24	12.5	20.5	20	0.8
0.0022	PPS222K3A190712800	19	7	12.5	15	0.8	0.018	PPS183K3A290917800	29	9	17.5	25	0.8
0.0027	PPS272K3A190813800	19	8	13	15	0.8	0.022	PPS223K3A241422800	24	13.5	22	20	0.8
0.0033	PPS332K3A190914800	19	8.5	14	15	0.8	0.022	PPS223K3A291019800	29	10.5	19	25	0.8
0.0039	PPS392K3A190916800	19	8.5	15.5	15	0.8	0.027	PPS273K3A241523800	24	15	23.5	20	0.8
0.0047	PPS472K3A191017800	19	10	17	15	0.8	0.027	PPS273K3A290918800	29	9.5	18	25	0.8
0.0056	PPS562K3A191118800	19	11	17.5	15	0.8	0.033	PPS333K3A291019800	29	10.5	19	25	0.8
0.0056	PPS562K3A240713800	24	7.5	13	20	0.8	0.039	PPS393K3A291120800	29	11.5	20	25	0.8
0.0068	PPS682K3A190713800	19	7	12.5	15	0.8	0.047	PPS473K3A291321800	29	12.5	21	25	0.8
0.0068	PPS682K3A240815800	24	8	15	20	0.8	0.056	PPS563K3A291422800	29	14	22	25	0.8
0.0082	PPS822K3A190813800	19	8	13.5	15	0.8	0.068	PPS683K3A291524800	29	15	23.5	25	0.8
0.0082	PPS822K3A240916800	24	8.6	15.6	20	0.8	0.082	PPS823K3A291725800	29	17	25.5	25	0.8
0.01	PPS103K3A190815800	19	8	15	15	0.8	0.1	PPS104K3A341220800	35	11.5	20	31.5	0.8

Dimensions (mm) (Rated Voltage: 1600V)

μ F	Part Number	W	T	H	P	d	μ F	Part Number	W	T	H	P	d
0.001	PPS102K3C190611600	19	6.5	11.5	15	0.6	0.0082	PPS822K3C240916800	24	9	16	20	0.8
0.0012	PPS122K3C190712800	19	7	12.5	15	0.8	0.01	PPS103K3C241016800	24	9.5	16.5	20	0.8
0.0015	PPS152K3C190611600	19	6	11	15	0.6	0.012	PPS123K3C241117800	24	10	17.5	20	0.8
0.0018	PPS182K3C190611600	19	6.5	11.5	15	0.6	0.015	PPS153K3C241219800	24	12	18.5	20	0.8
0.0022	PPS222K3C190712800	19	7	12.5	15	0.8	0.018	PPS183K3C241221800	24	12	21	20	0.8
0.0027	PPS272K3C190813800	19	8	13	15	0.8	0.022	PPS223K3C241422800	24	13.5	22	20	0.8

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0.0033	PPS332K3C190815800	19	8	15	15	0.8	0.015	PPS153K3C290817800	29	8	16.5	25	0.8
0.0039	PPS392K3C190916800	19	8.5	15.5	15	0.8	0.018	PPS183K3C290917800	29	9	17.5	25	0.8
0.0047	PPS472K3C191017800	19	10	17	15	0.8	0.022	PPS223K3C291019800	29	10.5	19	25	0.8
0.0056	PPS562K3C240714800	24	7.5	14.5	20	0.8	0.027	PPS273K3C291220800	29	11.5	20	25	0.8
0.0068	PPS682K3C240815800	24	8	15	20	0.8	0.033	PPS333K3C291321800	29	13	21	25	0.8

■ Dimensions (mm) (Rated Voltage: 2200Vac)

μF	Part Number	W	T	H	P	d	μF	Part Number	W	T	H	P	d
0.00056	PPS561K3D190612600	19	6.5	11.5	15	0.6	0.0047	PPS472K3D241118800	24	11	18	20	0.8
0.00068	PPS681K3D190713800	19	7.5	13	15	0.8	0.0056	PPS562K3D241117800	24	11	18	20	0.8
0.00082	PPS821K3D190813800	19	8	13.5	15	0.8	0.0068	PPS682K3D241119800	24	11.5	19.5	20	0.8
0.001	PPS102K3D190815800	19	8	15	15	0.8	0.0082	PPS822K3D241221800	24	12	20	20	0.8
0.0012	PPS122K3D190815800	19	8	15	15	0.8	0.01	PPS103K3D241221800	24	12.5	20.5	20	0.8
0.0015	PPS152K3D191016800	19	9.5	16	15	0.8	0.012	PPS123K3D241221800	24	13.5	21.5	20	0.8
0.0018	PPS182K3D191017800	19	10	17	15	0.8	0.0047	PPS472K3D290917800	29	8.5	17	25	0.8
0.0022	PPS222K3D191116800	19	10.5	16	15	0.8	0.0056	PPS562K3D291018800	29	10	18	25	0.8
0.0027	PPS272K3D240916800	24	9	16	20	0.8	0.0068	PPS682K3D291119800	29	11	19	25	0.8
0.0033	PPS332K3D240916800	24	9	16	20	0.8	0.0082	PPS822K3D291119800	29	11	19	25	0.8
0.0039	PPS392K3D241017800	24	10.5	17	20	0.8	0.01	PPS103K3D291119800	29	12	21	25	0.8