PPS/CBB81 High-Voltage Metallized Polypropylene Film Capacitors (Dipped-Type) Data Sheet

Feature

■Wide capacitance range from 0.001uF to 0.033uF.

■Operating Temperature: -40℃～105℃.

■Storage Temperature: 15℃~35℃.

■Low loss(DF) and small inherent temperature rise.

■Metallized polypropylene film, non-inductive winding construction.

■Suitable for high pulse and high current loading circuit, high frequency 100KHz.

■Capacitance change little, negative temperature coefficient of capacitance.

■Epoxy resin sealing.

Applications

■Suitable for high pulse circuits and high current loading circuit.

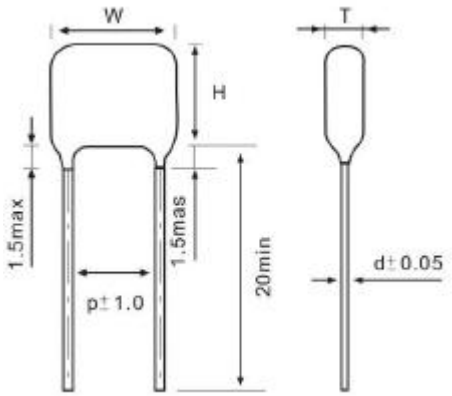
■Suitable for electronic ballast.

Part numbering on request.

Specifications

Climatic Category	40/100/21
Rated Voltage	1000VDC、1250VDC、 1600VDC、2000VDC、
Dissipation Factor (tanδ)	≤0.1%(1KHz、1.0Vrms、20℃)
Withstand Voltage	1.75U_R (5s)
Insulation Resistance (I.R.)	C≤0.33uF,IR≥50000MΩ C＞0.33uF,IR≥15000S (AT 100VDC、60SEC、20℃)

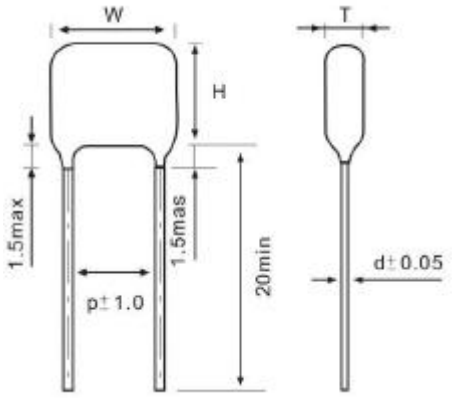
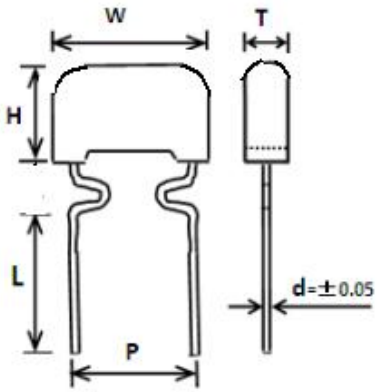
Dimensions (mm)



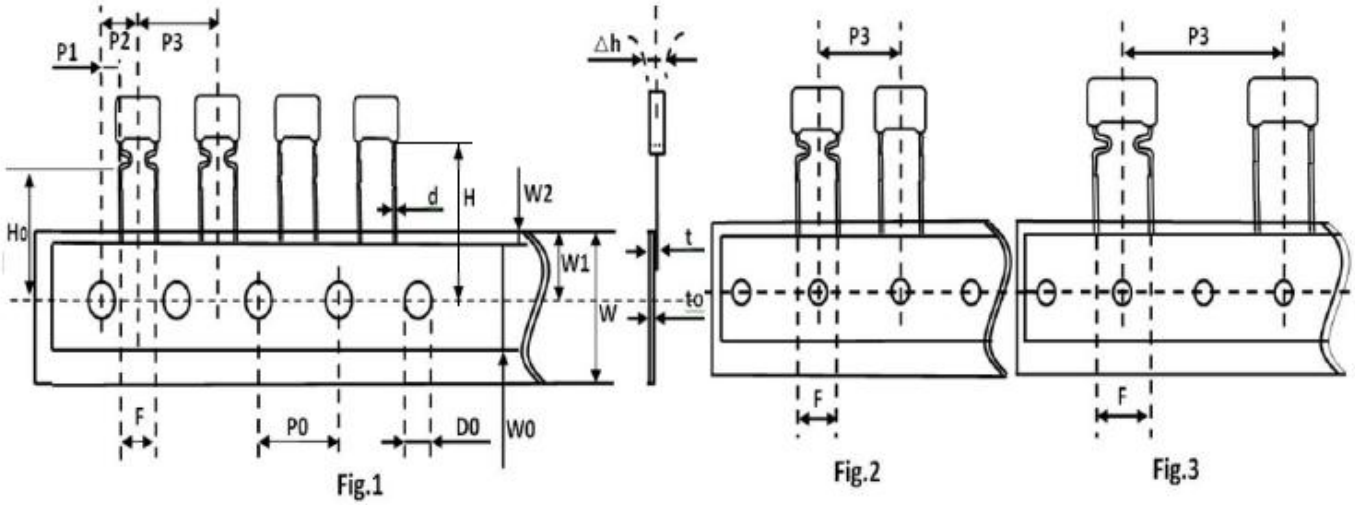
Capacitance (uF)	Rated Voltage	Size (mm)				
		W Max	H Max	T Max	P±1.0	d±0.05
0.001	1000VDC	18.0	10.5	5.5	15.0	0.8
	1250VDC	18.0	10.5	5.5	15.0	0.8
	1600VDC	18.0	10.5	5.5	15.0	0.8
	2000VDC	18.0	10.5	5.5	15.0	0.8
0.0012	1000VDC	18.0	11.0	6.0	15.0	0.8
	1250VDC	18.0	11.0	6.0	15.0	0.8
	1600VDC	18.0	11.0	6.0	15.0	0.8
	2000VDC	18.0	11.0	6.0	15.0	0.8
0.0015	1000VDC	18.0	10.0	5.5	15.0	0.8
	1250VDC	18.0	10.0	5.5	15.0	0.8
	1600VDC	18.0	10.0	5.5	15.0	0.8
	2000VDC	18.0	10.0	5.5	15.0	0.8
0.0018	1000VDC	18.0	10.5	5.5	15.0	0.8
	1250VDC	18.0	10.5	5.5	15.0	0.8
	1600VDC	18.0	10.5	5.5	15.0	0.8
	2000VDC	18.0	10.5	5.5	15.0	0.8
0.0022	1000VDC	18.0	10.5	5.5	15.0	0.8
	1250VDC	18.0	10.5	5.5	15.0	0.8
	1600VDC	18.0	10.5	5.5	15.0	0.8
	2000VDC	18.0	11.0	6.0	15.0	0.8
0.0033	1000VDC	18.0	10.5	5.5	15.0	0.8
	1250VDC	18.0	10.5	5.5	15.0	0.8
	1600VDC	18.0	12.0	6.5	15.0	0.8
	2000VDC	18.0	12.5	7.0	15.0	0.8

Capacitance (uF)	Rated Voltage	Size (mm)				
		W Max	H Max	T Max	P±1.0	d±0.05
0.0047	1000VDC	18.0	11.5	6.5	15.0	0.8
	1250VDC	18.0	11.5	6.5	15.0	0.8
	1600VDC	18.0	12.5	7.0	15.0	0.8
	2000VDC	18.0	14.5	8.5	15.0	0.8
0.0068	1000VDC	18.0	10.5	5.5	15.0	0.8
	1250VDC	18.0	12.5	7.0	15.0	0.8
	1600VDC	18.0	15.0	7.5	15.0	0.8
	2000VDC	18.0	17.0	10.0	15.0	0.8
0.0082	1000VDC	18.0	11.0	6.0	15.0	0.8
	1250VDC	18.0	14.5	7.5	15.0	0.8
	1600VDC	18.0	15.5	8.5	15.0	0.8
	2000VDC	18.0	18.0	10.5	15.0	0.8
0.01	1000VDC	18.0	11.5	6.5	15.0	0.8
	1250VDC	18.0	14.5	8.5	15.0	0.8
	1600VDC	18.0	16.5	9.5	15.0	0.8
	2000VDC	25.0	16.0	9.0	22.5	0.8
0.012	1000VDC	18.0	13.0	6.0	15.0	0.8
	1250VDC	18.0	16.0	9.0	15.0	0.8
	1600VDC	18.0	15.5	11.0	15.0	0.8
	2000VDC	25.0	17.0	11.0	22.5	0.8
0.015	1000VDC	18.0	14.0	7.0	15.0	0.8
	1250VDC	18.0	17.0	10.0	15.0	0.8
	1600VDC	25.0	15.0	8.0	22.5	0.8
	2000VDC	25.0	18.0	10.5	22.5	0.8
0.018	1000VDC	18.0	14.5	7.5	15.0	0.8
	1250VDC	18.0	18.0	11.0	15.0	0.8
	1600VDC	25.0	15.5	8.5	22.5	0.8
	2000VDC	25.0	19.0	11.5	22.5	0.8
0.022	1000VDC	18.0	15.5	8.5	15.0	0.8
	1250VDC	25.0	15.0	8.0	22.5	0.8
	1600VDC	25.0	16.0	9.0	22.5	0.8
	2000VDC	25.0	19.5	12.0	22.5	0.8
0.033	1000VDC	18.0	17.5	10.5	15.0	0.8
	1250VDC	25.0	17.0	10.0	22.5	0.8
	1600VDC	25.0	18.5	11.5	22.5	0.8

Lead Configuration

Lead Style	Drawing	Lead Length L (mm)
Long Straight		①[2.5≤L＜6.0]+/-0.5; ②[6.0≤L≤10]+/-1.0
Inner Crimped		①[2.5≤L＜6.0]+/-0.5; ②[6.0≤L≤10]+/-1.0

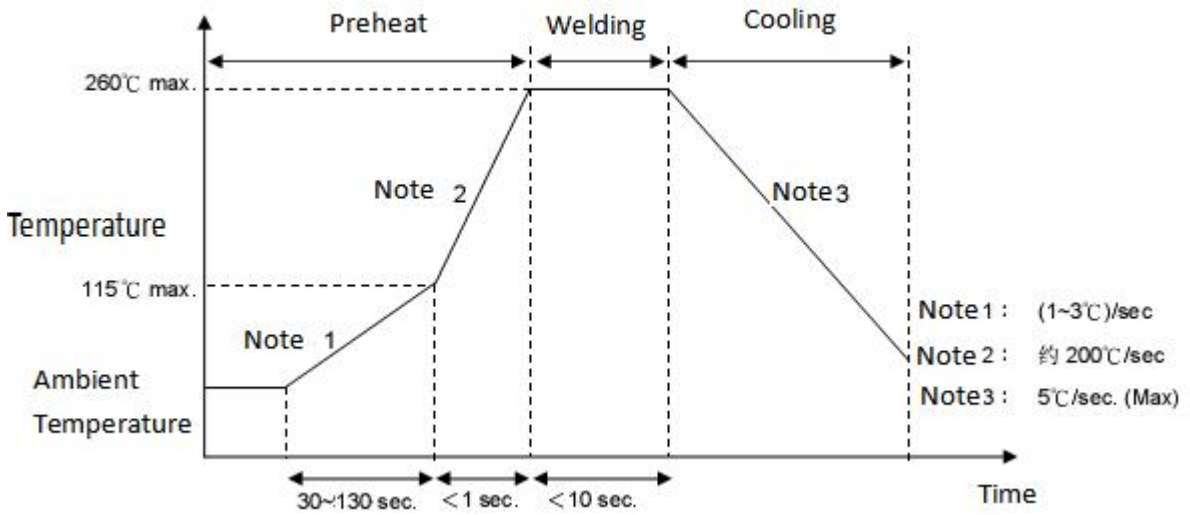
Taping And Dimensions (mm)

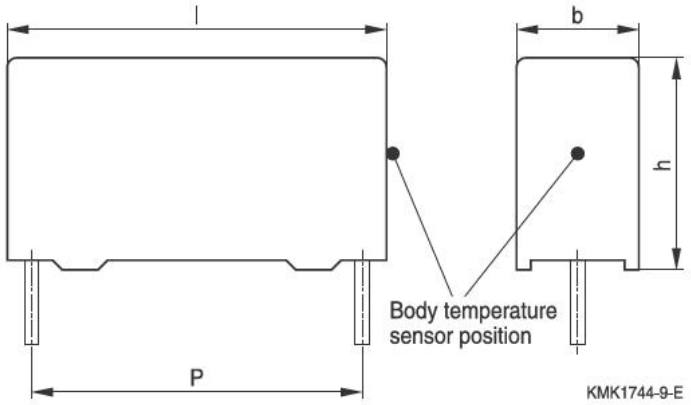


Symbol	Fig.1	Fig.2	Fig.2	Fig.3	Fig.3	Tolerance
	P=5.0	P=7.5	P=10	P=15	P=20/22.5	
P3	12.7	12.7	12.7	25.4	30.0	±1.0
P2	6.35	/	/	/	/	±1.3
P0	12.7	12.7	12.7	12.7	15.0	±0.3
P1	3.85	/	/	/	/	±0.7
F	5.0	7.5	10.0	15.0	20.0/22.5	±1.0
H	20.0	20.0	20.0	20.0	20.0	±1.0
H0	16.5	16.5	16.5	16.5	16.5	±0.5
Δ h	0	0	0	0	0	±2.0
W	18.0	18.0	18.0	18.0	18.0	+1.0/-0.5
W0	12.0	12.0	12.0	12.0	12.0	±1.0
W1	9.0	9.0	9.0	9.0	9.0	±0.5
W2	3.0	3.0	3.0	3.0	3.0	Max
D0	4.0	4.0	4.0	4.0	4.0	±0.3
d	0.5	0.6	0.6	0.8	0.8	±0.05
t	1.0	1.1	1.1	1.4	1.4	±0.2
t0	0.38	0.38	0.38	0.47	0.47	±0.04

Soldering Condition

Wave Soldering Graph





PP:
During pre-heating: Tp ≤110℃
During soldering: Ts ≤120℃, ts ≤15 s
PE:
During pre-heating: Tp ≤125℃
During soldering: Ts ≤160℃, ts ≤15 s

Note: Film capacitor is not suitable for reflow soldering, because it will cause thermal contraction and affect electrical performance.

Iron Soldering Condition

Item	Condition
Temperature of soldering copper bit	350℃（max.）
Soldering duration	3sec（max.）
Space between soldering position and coating layer	2mm（min.）

Storage Conditions

- When store under the atmosphere, the terminal may contact with the substance of hydrochloride, hydrosulfide, sulfuric acid, etc. in the atmosphere, which needs to be paid attention to the deterioration of the solderability of the terminal.
- Product could not be exposed to high humidity and high temperature environment. Please store under below condition with the original packing.

A. Temperature: ≤35℃

B. Himidity: ≤70%RH

C. Storage period: Max 12 months