CBB23 Metallized Polypropylene Film Capacitors (Dipped-Type)Data Sheet

Feature

■Wide capacitance range from 0.001uF to 0.22uF.

■Operating Temperature: -40℃～105℃.

■Storage Temperature:15℃~35℃.

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

■Metallic polypropylene internal channeling material.

■Negative temperature coefficient of capacitance.

■Excellent active and passive flame resistant abilities.

Applications

■Widely used in high voltage, high frequency pulse circuit.

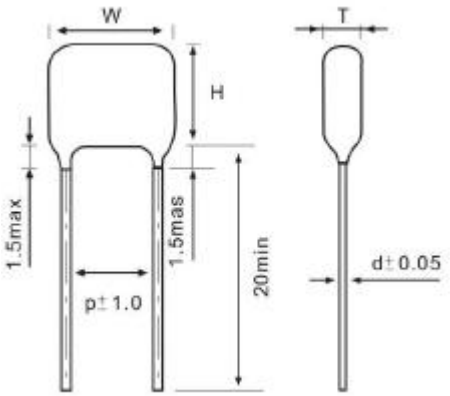
■Electronic lighting (such as electronic rectifier).

Part numbering on request.

Specifications

Climatic Category	40/100/21
Rated Voltage	1000VDC、1200VDC、 1600VDC、2000VDC、
Dissipation Factor (tanδ)	≤0.1%(1KHz、1.0Vrms、20℃)
Withstand Voltage	$1.6U_R$ (2s)
Insulation Resistance (I.R.)	C≤0.33uF,IR≥50000MΩ C＞0.33uF,IR≥15000S (AT 100VDC、60SEC、20℃)

Dimensions (mm)

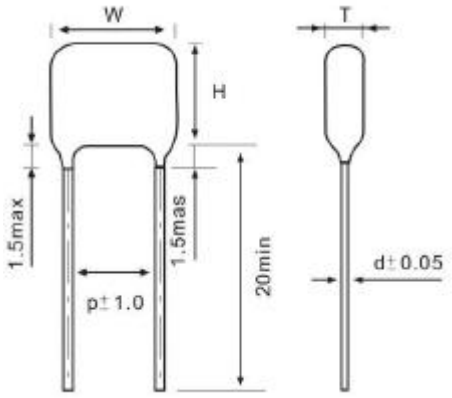
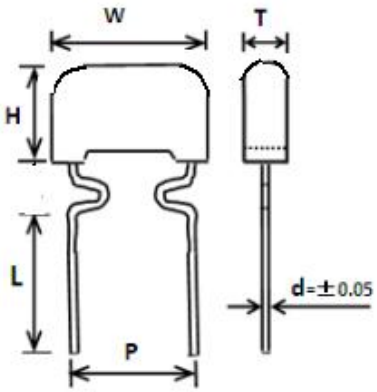


Capacitance (uF)	Rated Voltage	Size (mm)				
		W Max	H Max	T Max	P±1.0	d±0.05
0.001	1000VDC	12.0	7.0	3.5	10.0	0.6
	1200VDC	12.0	7.0	3.5	10.0	0.6
	1600VDC	17.0	9.5	4.5	15.0	0.8
	2000VDC	17.0	9.5	4.5	15.0	0.8
0.0012	1000VDC	12.0	7.5	3.5	10.0	0.6
	1200VDC	12.0	7.5	3.5	10.0	0.6
	1600VDC	17.0	10.0	5.0	15.0	0.8
	2000VDC	17.0	10.0	5.0	15.0	0.8
0.0015	1000VDC	12.0	7.5	4.0	10.0	0.6
	1200VDC	12.0	7.5	4.0	10.0	0.6
	1600VDC	17.0	10.0	5.5	15.0	0.8
	2000VDC	17.0	10.0	5.5	15.0	0.8
0.0018	1000VDC	12.0	8.0	4.0	10.0	0.6
	1200VDC	12.0	8.0	4.0	10.0	0.6
	1600VDC	17.0	11.0	5.5	15.0	0.8
	2000VDC	17.0	11.0	5.5	15.0	0.8
0.0022	1000VDC	12.0	8.5	5.0	10.0	0.6
	1200VDC	12.0	8.5	5.0	10.0	0.6
	1600VDC	17.0	11.0	6.0	15.0	0.8
	2000VDC	17.0	11.0	6.0	15.0	0.8
0.0033	1000VDC	12.0	8.5	5.0	10.0	0.6
	1200VDC	12.0	8.5	5.0	10.0	0.6
	1600VDC	17.0	9.0	5.0	15.0	0.8
	2000VDC	17.0	9.0	6.5	15.0	0.8

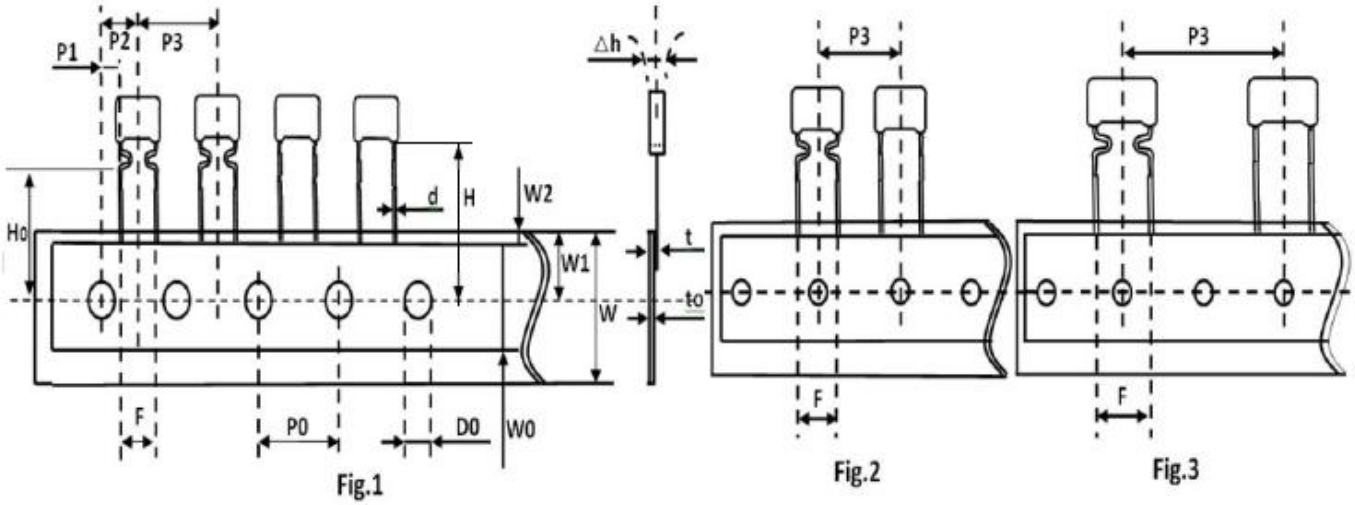
Capacitance (uF)	Rated Voltage	Size (mm)				
		W Max	H Max	T Max	P±1.0	d±0.05
0.0047	1000VDC	12.0	9.0	4.5	10.0	0.6
	1200VDC	12.0	9.0	4.5	10.0	0.6
	1600VDC	17.0	9.0	5.0	15.0	0.8
	2000VDC	17.0	9.0	7.0	15.0	0.8
0.0056	1000VDC	12.0	9.0	4.5	10.0	0.8
	1200VDC	12.0	9.0	4.5	10.0	0.8
	1600VDC	17.0	10.0	5.0	15.0	0.8
	2000VDC	17.0	9.0	7.0	15.0	0.8
0.0068	1000VDC	12.0	9.5	4.5	10.0	0.6
	1200VDC	12.0	9.5	4.5	10.0	0.6
	1600VDC	17.0	10.5	5.5	15.0	0.8
	2000VDC	17.0	10.0	8.0	15.0	0.8
0.0082	1000VDC	12.0	10.0	5.0	10.0	0.6
	1200VDC	12.0	10.0.	5.0	10.0	0.6
	1600VDC	17.0	11.0	5.5	15.0	0.8
	2000VDC	17.0	15.0	8.5	15.0	0.8
0.01	1000VDC	12.0	10.5	5.5	10.0	0.6
	1200VDC	12.0	10.5	5.5	10.0	0.6
	1600VDC	17.0	11.0	6.0	15.0	0.8
	2000VDC	17.0	15.0	10.5	15.0	0.8
0.012	1000VDC	12.0	11.0	6.0	10.0	0.6
	1200VDC	12.0	11.0	6.0	10.0	0.6
	1600VDC	17.0	12.0	6.5	15.0	0.8
	2000VDC	17.0	12.0	6.5	15.0	0.8
0.015	1000VDC	12.0	12.0	7.0	10.0	0.6
	1200VDC	12.0	12.0	7.0	10.0	0.6
	1600VDC	17.0	13.5	7.5	15.0	0.8
	2000VDC	17.0	13.5	7.5	15.0	0.8
0.022	1000VDC	17.0	13.0	6.5	15.0	0.8
	1200VDC	17.0	13.0	6.5	15.0	0.8
	1600VDC	24.0	12.5	6.5	22.5	0.8
0.033	1000VDC	17.0	13.0	6.5	15.0	0.8
	1200VDC	17.0	13.0	6.5	15.0	0.8
	1600VDC	24.0	13.0	7.0	22.5	0.8

Capacitance (uF)	Rated Voltage	Size (mm)				
		W Max	H Max	T Max	P±1.0	d±0.05
0.047	1000VDC	17.0	13.0	7.0	15.0	0.8
	1200VDC	17.0	13.0	7.0	15.0	0.8
	1600VDC	24.0	13.0	7.0	22.5	0.8
0.056	1000VDC	24.0	11.0	6.0	22.5	0.8
	1200VDC	24.0	11.0	6.0	22.5	0.8
0.068	1000VDC	24.0	13.0	6.5	22.5	0.8
	1200VDC	24.0	13.0	6.5	22.5	0.8
0.082	1000VDC	24.0	15.0	7.5	22.5	0.8
	1200VDC	24.0	15.0	7.5	22.5	0.8
0.1	1000VDC	24.0	15.0	7.5	22.5	0.8
	1200VDC	24.0	15.0	7.5	22.5	0.8
0.12	1000VDC	24.0	15.5	8.0	22.5	0.8
	1200VDC	24.0	15.5	8.0	22.5	0.8
0.15	1000VDC	24.0	16.5	9.0	22.5	0.8
	1200VDC	24.0	16.5	9.0	22.5	0.8
0.22	1000VDC	24.0	18.5	11.0	22.5	0.8
	1200VDC	24.0	18.5	11.0	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

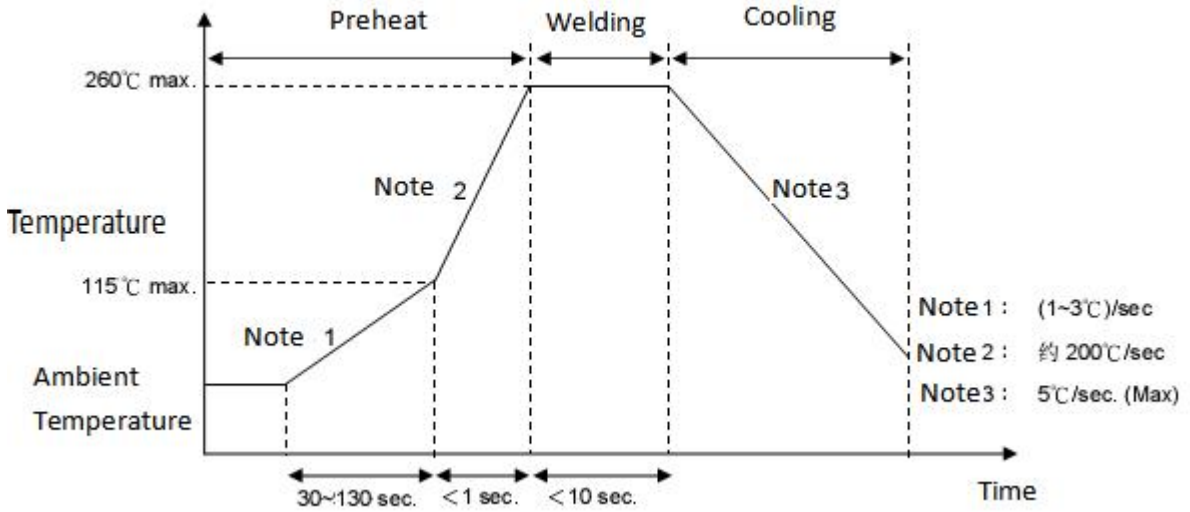
Taping And Dimensions (mm)

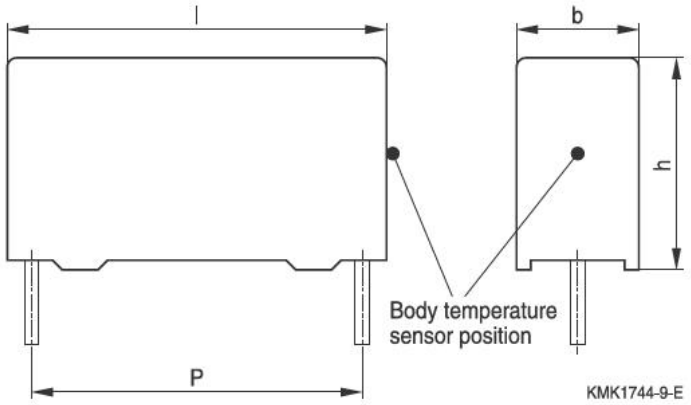


Symbol	Fig.2	Fig.3	Fig.3	Tolerance
	P=10	P=15	P=20/22.5	
P3	12.7	25.4	30.0	±1.0
P2	/	/	/	±1.3
P0	12.7	12.7	15.0	±0.3
P1	/	/	/	±0.7
F	10.0	15.0	20.0/22.5	±1.0
H	20.0	20.0	20.0	±1.0
H0	16.5	16.5	16.5	±0.5
Δ h	0	0	0	±2.0
W	18.0	18.0	18.0	+1.0/-0.5
W0	12.0	12.0	12.0	±1.0
W1	9.0	9.0	9.0	±0.5
W2	3.0	3.0	3.0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