CBB23B-THB 85℃/85%RH Metallized Polypropylene Film Capacitors (Box-Type) Data Sheet

Feature

■Wide capacitance range from 0.0022uF to 1.0uF.

■Operating Temperature: -40℃～105℃.

■Storage Temperature: 15℃~35℃.

■Metallized polypropylene film.

■Good self-healing properties, withstanding over-voltage stressing.

■Long stability of capacitance

■Excellent active and passive flame resistant abilities (UL94V-0),good properties in damp environment.

Applications

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

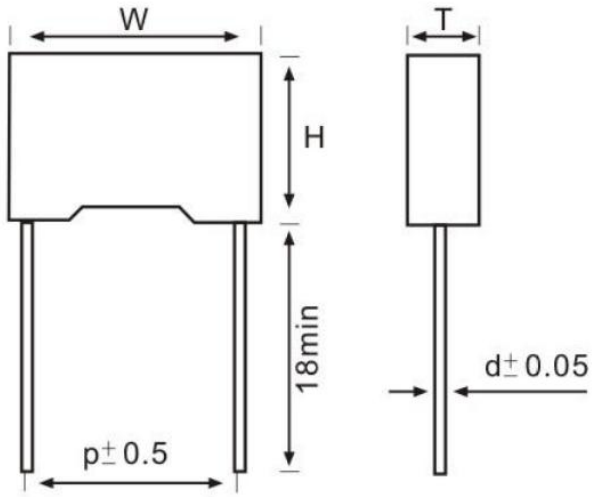
■Electronic lighting (such as electronic rectifier).

Part numbering on request.

Specifications

Climatic Category	40/100/21
Rated Voltage	350VAC、400VAC
Dissipation Factor(tanδ)	≤0.1%(1KHz、1.0Vrms、20℃)
Withstand Voltage	1.6U_R (5s)
Insulation Resistance (I.R.)	IR≥50000MΩ (AT 100VDC、60SEC、20℃)
High Temperature and high Humidity Test	Capacitance change rate ≤10% (Applied voltage:240VAC; Temperature: 85 ± 2 ℃; Humidity: 85±2%; Test period: 500 hours)

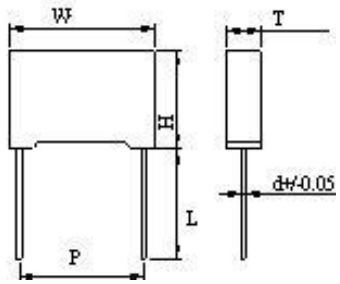
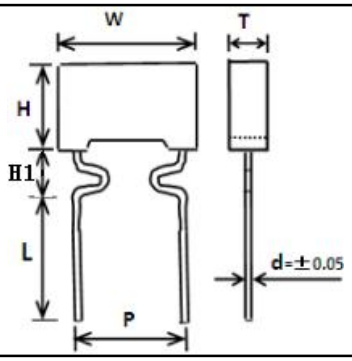
Dimensions (mm)



Capacitance (uF)	Rated Voltage	Size (mm)				
		W±0.5	H ±0.5	T ±0.5	P±1.0	d±0.05
0.0022	350VAC/400VAC	13.0	9.0	4.0	10.0	0.6
0.0033	350VAC/400VAC	13.0	9.0	4.0	10.0	0.6
0.0047	350VAC/400VAC	13.0	9.0	4.0	10.0	0.6
0.0056	350VAC/400VAC	13.0	11.0	5.0	10.0	0.6
0.0068	350VAC/400VAC	13.0	11.0	5.0	10.0	0.6
0.0082	350VAC/400VAC	13.0	12.0	6.0	10.0	0.6
0.01	350VAC/400VAC	13.0	12.0	6.0	10.0	0.6
0.012	350VAC/400VAC	13.0	12.0	6.0	10.0	0.6
0.015	350VAC/400VAC	13.0	12.0	6.0	10.0	0.6
0.018	350VAC/400VAC	13.0	12.0	6.0	10.0	0.6
0.022	350VAC/400VAC	13.0	12.0	6.0	10.0	0.6
0.01	350VAC/400VAC	18.0	11.0	5.0	15.0	0.8
0.012	350VAC/400VAC	18.0	11.0	5.0	15.0	0.8
0.015	350VAC/400VAC	18.0	11.0	5.0	15.0	0.8
0.018	350VAC/400VAC	18.0	11.0	5.0	15.0	0.8
0.022	350VAC/400VAC	18.0	12.0	6.0	15.0	0.8
0.027	350VAC/400VAC	18.0	12.0	6.0	15.0	0.8
0.033	350VAC/400VAC	18.0	13.5	7.5	15.0	0.8
0.039	350VAC/400VAC	18.0	13.5	7.5	15.0	0.8
0.047	350VAC/400VAC	18.0	13.5	7.5	15.0	0.8
0.056	350VAC/400VAC	18.0	14.5	8.5	15.0	0.8

Capacitance (uF)	Rated Voltage	Size (mm)				
		W Max	H Max	T Max	P±1.0	d±0.05
0.068	350VAC/400VAC	18.0	14.5	8.5	15.0	0.8
0.082	350VAC/400VAC	18.0	16.0	10.0	15.0	0.8
0.1	350VAC/400VAC	18.0	16.0	10.0	15.0	0.8
0.12	350VAC/400VAC	18.0	19.0	11.0	15.0	0.8
0.047	350VAC/400VAC	26.5	15.0	6.0	22.5	0.8
0.056	350VAC/400VAC	26.5	16.5	7.0	22.5	0.8
0.068	350VAC/400VAC	26.5	16.5	7.0	22.5	0.8
0.082	350VAC/400VAC	26.5	16.5	7.0	22.5	0.8
0.1	350VAC/400VAC	26.5	17.0	8.5	22.5	0.8
0.12	350VAC/400VAC	26.5	17.0	8.5	22.5	0.8
0.15	350VAC/400VAC	31.5	20.0	11.0	27.5	0.8
0.18	350VAC/400VAC	26.5	19.0	10.0	22.5	0.8
		31.5	20.0	11.0	27.5	0.8
0.22	350VAC/400VAC	26.5	20.0	11.0	22.5	0.8
		31.5	20.0	11.0	27.5	0.8
0.27	350VAC/400VAC	26.5	22.0	12.0	22.5	0.8
		31.5	20.0	11.0	27.5	0.8
0.33	350VAC/400VAC	26.5	23.0	13.0	22.5	0.8
		31.5	20.0	11.0	27.5	0.8
0.39	350VAC/400VAC	26.5	23.0	13.0	22.5	0.8
		31.5	20.0	11.0	27.5	0.8
0.47	350VAC/400VAC	26.5	23.0	13.0	22.5	0.8
		31.5	22.0	13.0	27.5	0.8
0.56	350VAC/400VAC	31.5	25.0	15.0	27.5	0.8
0.68	350VAC/400VAC	32.0	28.0	18.0	27.5	0.8
0.82	350VAC/400VAC	32.0	33.0	18.0	27.5	0.8
1.0	350VAC/400VAC	32.0	33.0	18.0	27.5	0.8

Lead Configuration

Lead Style	Drawing	Lead Length L (mm)	Coating Lead Length H1(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	Pitch P＞10mm:H1＜6.0mm Pitch P≤10mm:H1＜5.0mm

Taping And Dimensions (mm)

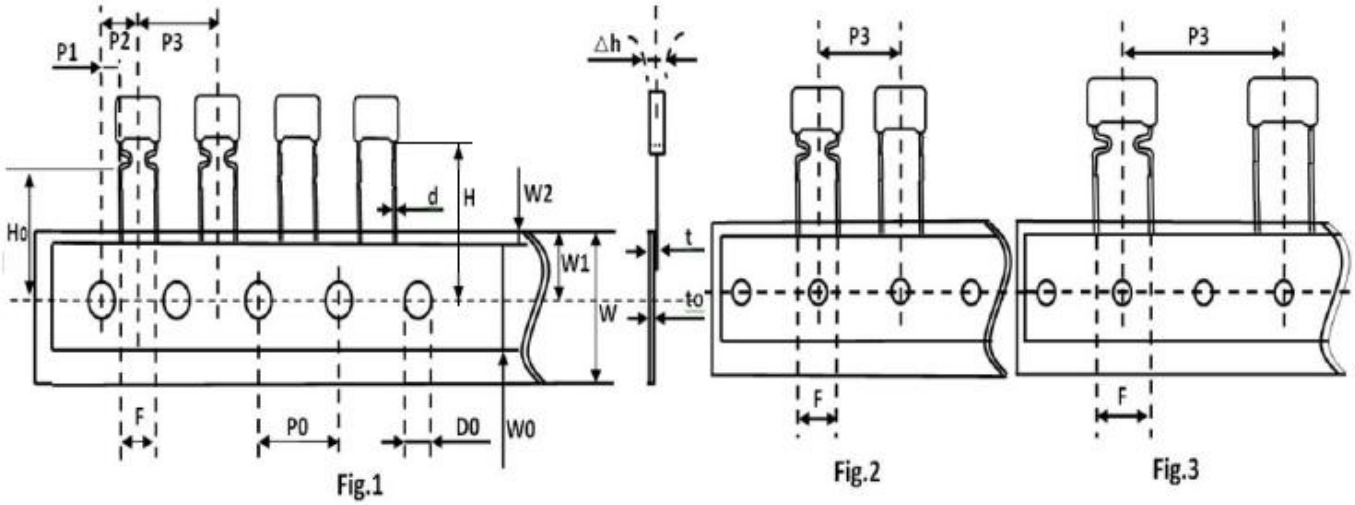
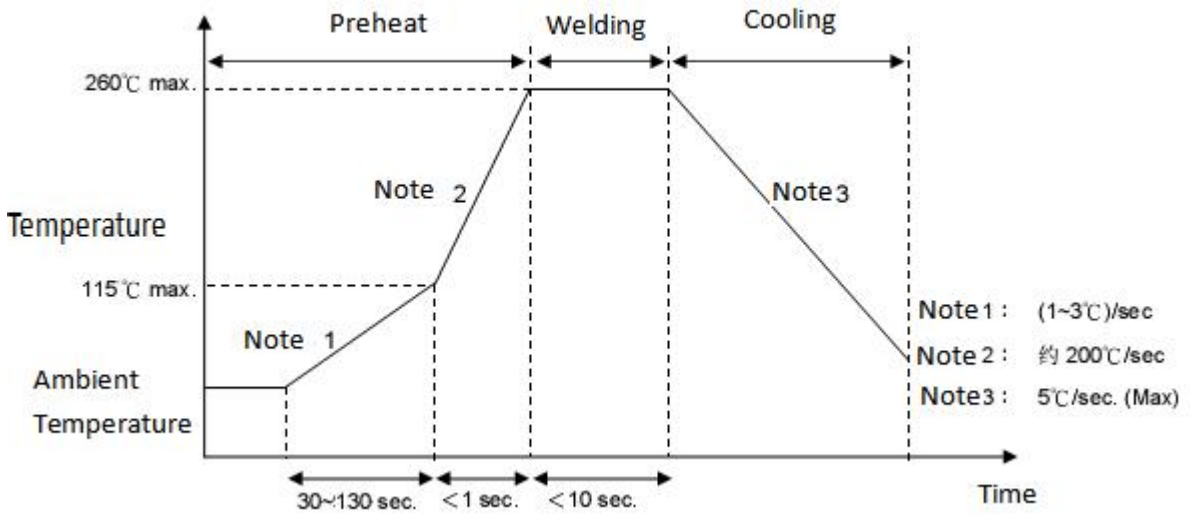


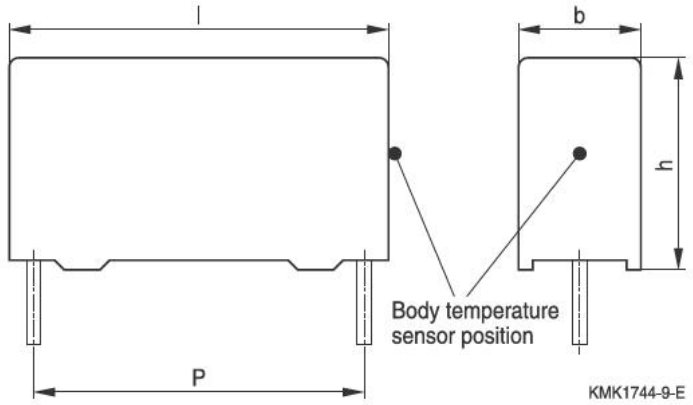
Fig.1 Fig.2 Fig.3

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