CBB21X Metallized Polypropylene Film Capacitors (Dipped-Type)Data Sheet

Feature

■Wide capacitance range from 0.01uF to 0.18uF.

■Operating Temperature: -40℃～105℃.

■Storage Temperature: 15℃~35℃.

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

■Low frequency loss, low internal temperature rise.

■Small inherent temperature rise.

■Metallized polypropylene film.

■Excellent active and passive flame resistant abilities (UL94V-0).

Applications

■Widely used in high frequency, DC, AC and pulse circuit.

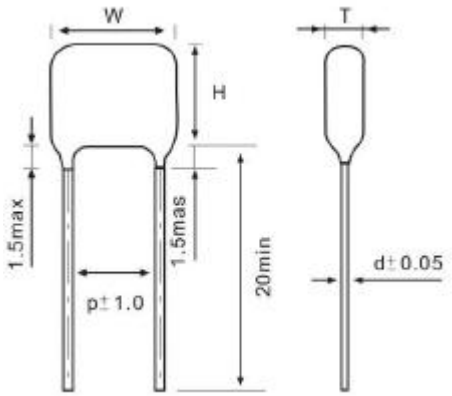
■Suitable for color TV S correction with small volume requirements and excellent performance.

Part numbering on request.

Specifications

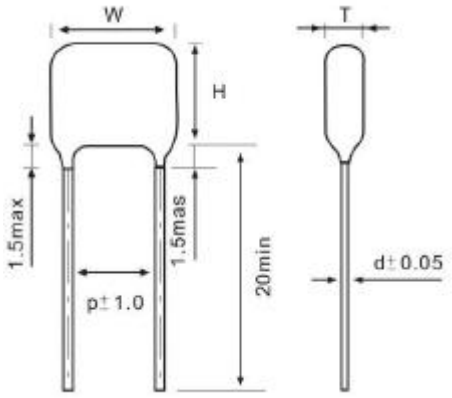
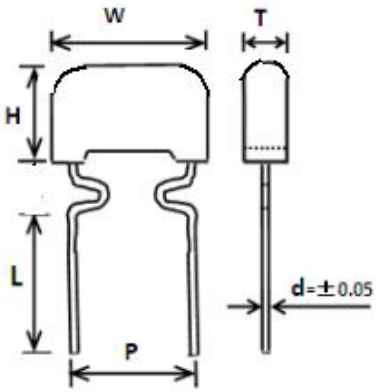
Climatic Category	40/100/21
Rated Voltage	63VDC、100VDC、250VDC
Dissipation Factor (tanδ)	≤0.1%(1KHz、1.0Vrms、20℃)
Withstand Voltage	1.6U_R (5s)
Insulation Resistance (I.R.)	C≤0.33uF, IR≥50000MΩ C＞0.33uF, IR≥15000S (AT 100VDC、60SEC、20℃)

Dimensions (mm)



Capacitance (uF)	Rated Voltage	Size (mm)				
		W±0.5	H±1.0	T±1.0	P±1.0	d±0.05
0.01	63VDC/100VDC/250VDC	7.0	7.5	3.5	5.0	0.5
0.012	63VDC/100VDC/250VDC	7.0	7.5	4.0	5.0	0.5
0.015	63VDC/100VDC/250VDC	7.0	8.0	4.5	5.0	0.5
0.018	63VDC/100VDC/250VDC	7.0	8.5	5.0	5.0	0.5
0.022	63VDC/100VDC/250VDC	7.0	8.5	4.5	5.0	0.5
0.033	63VDC/100VDC/250VDC	7.0	8.5	5.0	5.0	0.5
0.047	63VDC/100VDC/250VDC	7.0	10.5	5.0	5.0	0.5
0.056	63VDC/100VDC/250VDC	7.0	9.0	4.5	5.0	0.5
0.068	63VDC/100VDC/250VDC	7.0	10.0	5.0	5.0	0.5
0.082	63VDC/100VDC/250VDC	7.0	10.5	5.5	5.0	0.5
0.1	63VDC/100VDC/250VDC	7.0	11.5	6.0	5.0	0.5
0.12	63VDC/100VDC	7.0	10.0	5.0	5.0	0.5
0.15	63VDC/100VDC	7.0	11.0	5.5	5.0	0.5
0.18	63VDC/100VDC	7.0	11.5	6.0	5.0	0.5

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)

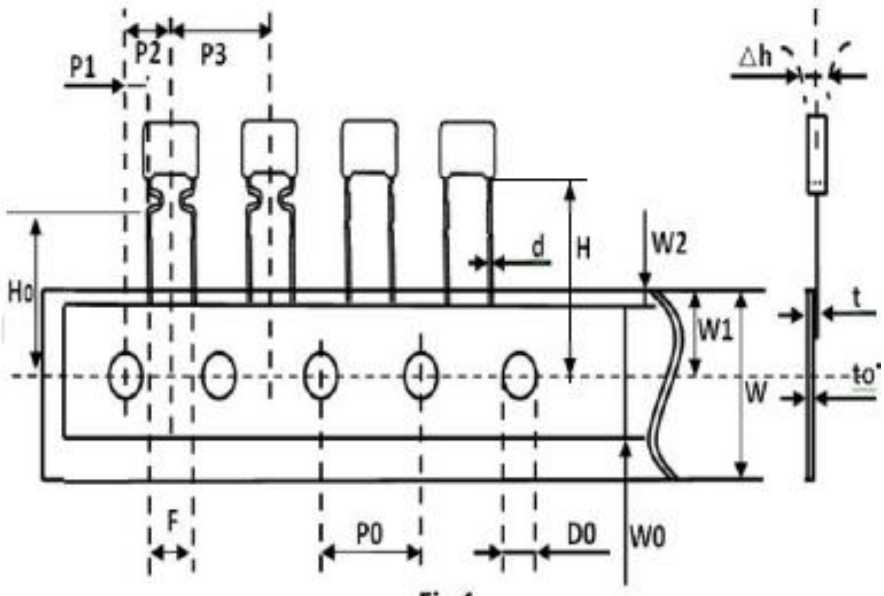
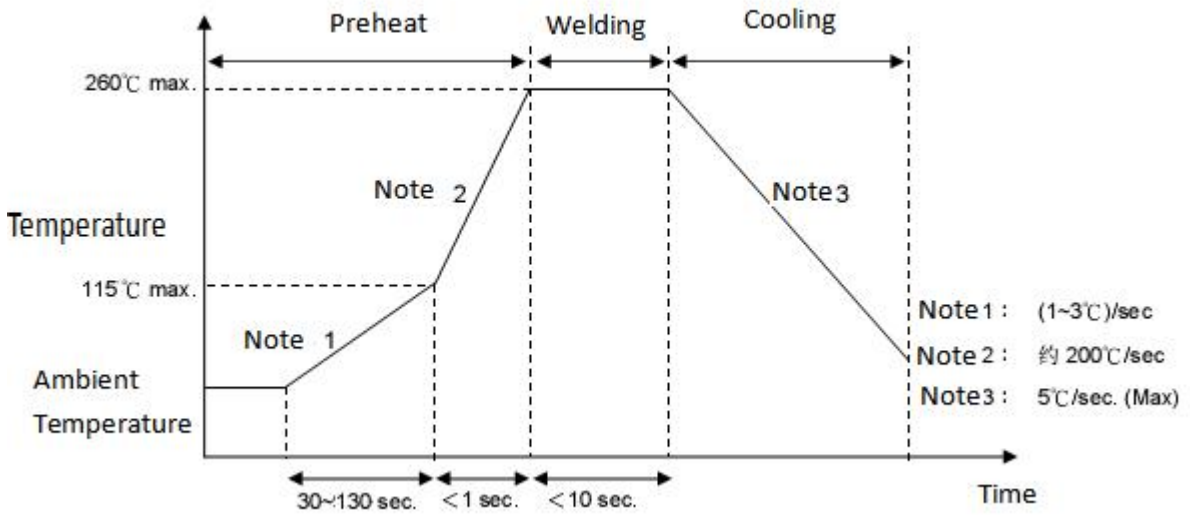


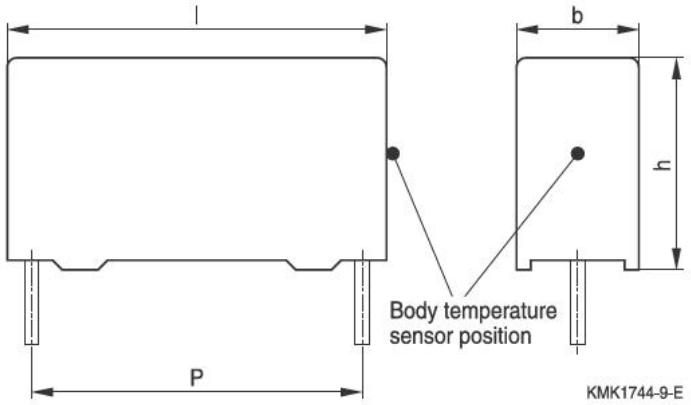
Fig.1

Symbol	Fig.1	Tolerance
	P=5.0	
P3	12.7	±1.0
P2	6.35	±1.3
P0	12.7	±0.3
P1	3.85	±0.7
F	5.0	±1.0
H	20.0	±1.0
H0	16.5	±0.5
Δ h	0	±2.0
W	18.0	+1.0/-0.5
W0	12.0	±1.0
W1	9.0	±0.5
W2	3.0	Max
D0	4.0	±0.3
d	0.5	±0.05
t	1.0	±0.2
t0	0.38	±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