MEB/CL21B Metallized Polyester Film Capacitor (Box-Type) Data Sheet

Feature

■Wide capacitance range from 0.01uF to 2.2uF.

■Operating Temperature: -40℃～125℃.

(+105℃ to +125℃ decreasing factor 1.25%per ℃ for VR DC)

■Storage Temperature: 15℃~35℃.

■Self-healing property.

■High moisture resistance.

■Good solder rability.

■Flame retardant plastic case and epoxy resin sealing(UL94V-0).

■Metallized polyester Film, non-inductive construction.

Applications

■By-passing, blocking, coupling, decoupling.

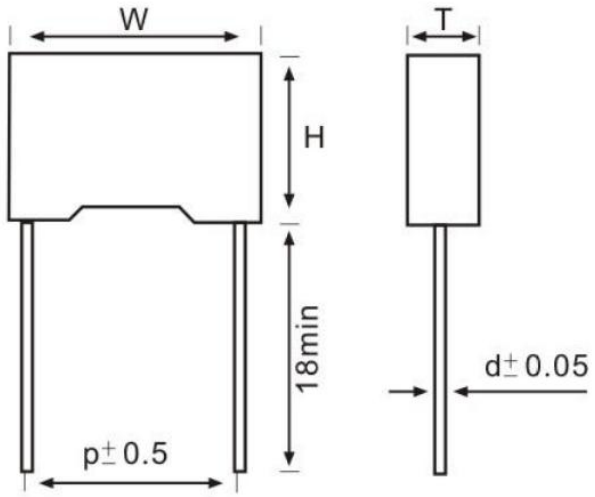
■Pulse,timing, oscillator circuits.

Part numbering on request.

Specifications

Climatic Category	40/100/21
Rated Voltage	100VDC、250VDC、400VDC、630VDC
Dissipation Factor (tanδ)	≤1.0%(1KHz、1.0Vrms、20℃)
Withstand Voltage	$1.6U_R$ (5s)
Insulation Resistance (I.R.)	>100V(AT 100VDC 60S) C≤0.33uF,IR≥30000MΩ C＞0.33uF,IR≥10000S ≤100V(AT 10VDC 60S) C≤0.33uF,IR≥15000MΩ C＞0.33uF,IR≥5000S 注：T[s]=I.R.[MΩ]*C_N [μF]

Dimensions (mm) and Approval

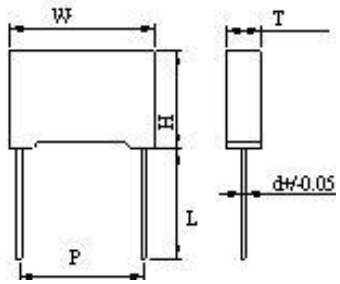
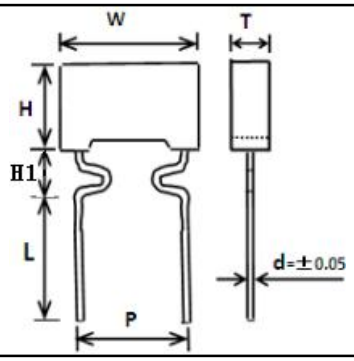


Capacitance (uF)	Rated Voltage	Size (mm)				
		W±0.5	H±0.5	T±0.5	P±1.0	d±0.05
0.01	100VDC	13.0	11.0	5.0	10.0	0.6
	250VDC	13.0	11.0	5.0	10.0	0.6
	400VDC	13.0	11.0	5.0	10.0	0.6
	630VDC	13.0	11.0	5.0	10.0	0.6
0.015	100VDC	13.0	11.0	5.0	10.0	0.6
	250VDC	13.0	11.0	5.0	10.0	0.6
	400VDC	13.0	11.0	5.0	10.0	0.6
	630VDC	13.0	11.0	5.0	10.0	0.6
0.022	100VDC	13.0	11.0	5.0	10.0	0.6
	250VDC	13.0	11.0	5.0	10.0	0.6
	400VDC	13.0	11.0	5.0	10.0	0.6
	630VDC	13.0	11.0	5.0	10.0	0.6
0.033	100VDC	13.0	11.0	5.0	10.0	0.6
	250VDC	13.0	11.0	5.0	10.0	0.6
	400VDC	13.0	11.0	5.0	10.0	0.6
	630VDC	13.0	11.0	5.0	10.0	0.6
0.047	100VDC	13.0	11.0	5.0	10.0	0.6
	250VDC	13.0	11.0	5.0	10.0	0.6
	400VDC	13.0	11.0	5.0	10.0	0.6
	630VDC	13.0	11.0	5.0	10.0	0.6

Capacitance (uF)	Rated Voltage	Size (mm)				
		W±0.5	H±0.5	T±0.5	P±1.0	d±0.05
0.068	100VDC	13.0	11.0	5.0	10.0	0.6
	250VDC	13.0	11.0	5.0	10.0	0.6
	400VDC	13.0	11.0	5.0	10.0	0.6
	630VDC	13.0	12.0	6.0	10.0	0.6
0.1	100VDC	13.0	11.0	5.0	10.0	0.6
	250VDC	13.0	11.0	5.0	10.0	0.6
	400VDC	13.0	11.0	5.0	10.0	0.6
	630VDC	18.0	11.0	6.0	15.0	0.8
0.15	100VDC	13.0	11.0	5.0	10.0	0.6
	250VDC	13.0	11.0	5.0	10.0	0.6
	400VDC	13.0	11.0	5.0	10.0	0.6
	630VDC	18.0	12.0	6.0	15.0	0.8
0.22	100VDC	13.0	11.0	5.0	10.0	0.6
	250VDC	13.0	12.0	6.0	10.0	0.6
	400VDC	18.0	13.5	7.5	15.0	0.8
	630VDC	18.0	13.5	7.5	15.0	0.8
0.33	100VDC	13.0	11.0	5.0	10.0	0.6
	250VDC	18.0	12.0	6.0	15.0	0.8
	400VDC	18.0	12.0	6.0	15.0	0.8
	630VDC	18.0	16.0	10.0	15.0	0.8
0.47	100VDC	13.0	11.0	5.0	10.0	0.6
	250VDC	18.0	12.0	6.0	15.0	0.8
	400VDC	18.0	14.5	8.5	15.0	0.8
	630VDC	26.5	17.0	8.5	22.5	0.8
0.68	100VDC	13.0	12.0	6.0	10.0	0.6
	250VDC	18.0	13.5	7.5	15.0	0.8
	400VDC	18.0	16.0	10.0	15.0	0.8
	630VDC	26.5	19.0	10.0	22.5	0.8
1.0	100VDC	13.0	12.0	6.0	10.0	0.6
	250VDC	18.0	14.5	8.5	15.0	0.8
	400VDC	26.5	17.0	8.5	22.5	0.8
	630VDC	26.5	22.0	12.0	22.5	0.8
1.5	100VDC	18.0	12.0	6.0	15.0	0.8
	250VDC	18.0	19.0	11.0	15.0	0.8
	400VDC	26.5	19.0	10.0	22.5	0.8
	630VDC	32.0	22.0	13.0	27.5	0.8

Capacitance (uF)	Rated Voltage	Size (mm)				
		W±0.5	H±0.5	T±0.5	P±1.0	d±0.05
2.2	100VDC	26.5	19.0	10.0	22.5	0.8
	250VDC	26.5	19.0	10.0	22.5	0.8
	400VDC	32.0	20.0	11.0	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)

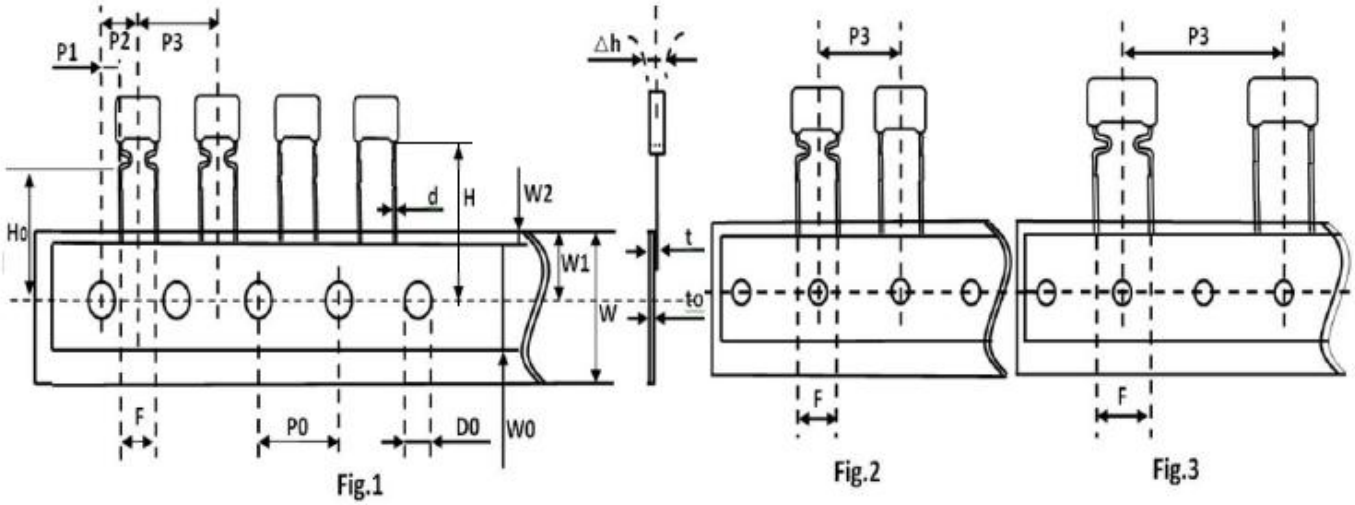
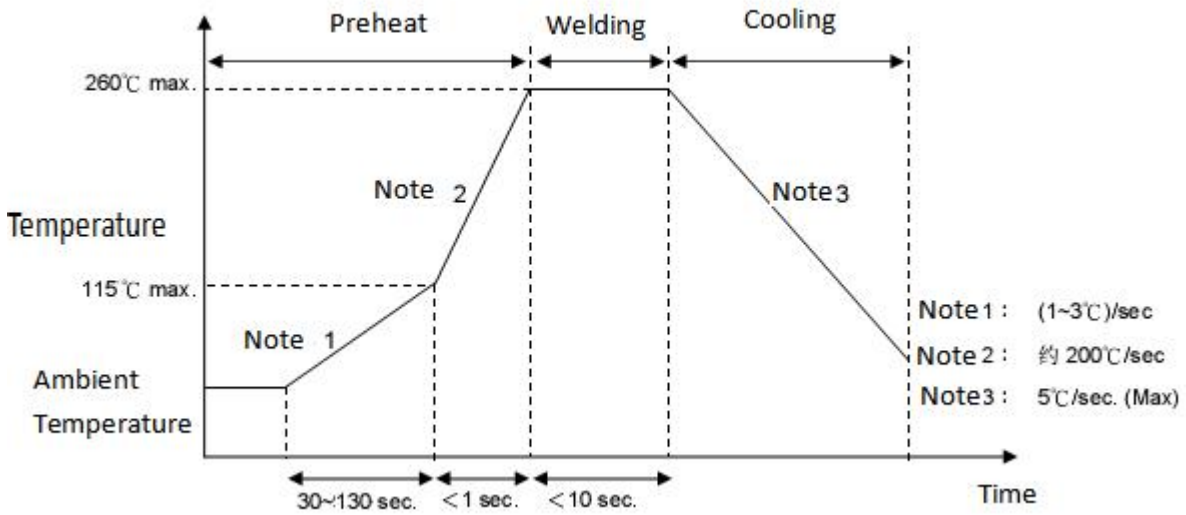


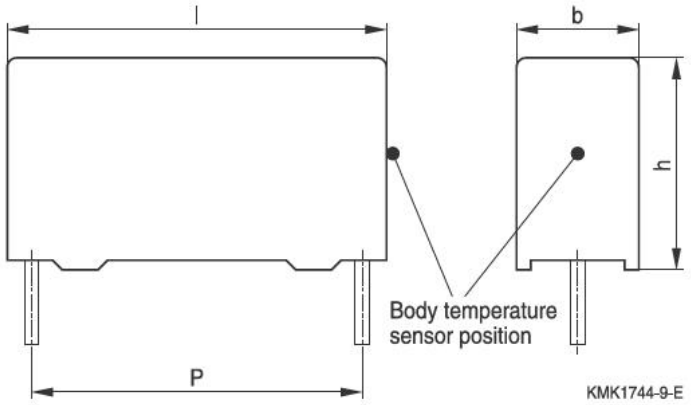
Fig.1 Fig.2 Fig.3

Symbol	Fig.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