# Metallized polyester Film Capacitor (CL21B) Data Sheet

## Feature

■Wide capacitance range from 0.01uF to 2.2uF

■Operating Temperature: -40℃～85℃

■Storage Temperature: 15℃~35℃

■Self-healing property

■High moisture resistance

■Good solder rability

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

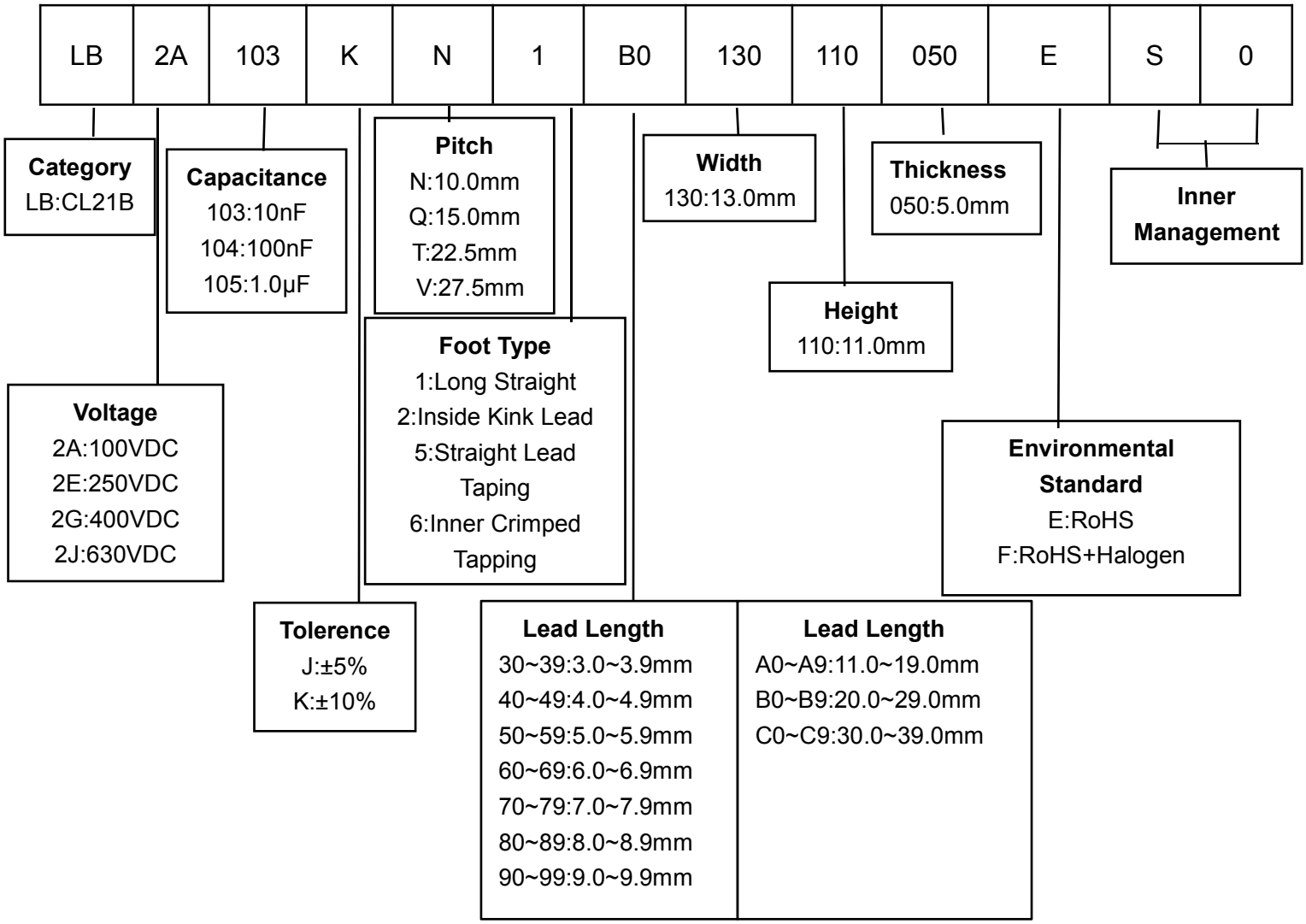
■Metallized polyester Film, non-inductive construction

## Applications

■By-passing, blocking, coupling, decoupling

■Pulse,timing, oscillator circuits

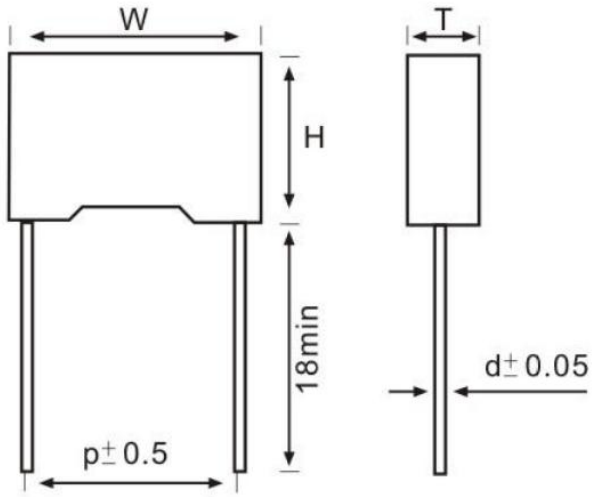
## Part Number Code




## Specifications

| | |
|---|---|
| **Climatic Category** | 40/100/56 |
| **Rated Voltage** | 100VDC、250VDC、400VDC、630VDC |
| **Dissipation Factor (tanδ)** | ≤1.0%(1KHz、1.0Vrms、20℃) |
| **Withstand Voltage** | 1.6$U_R$ (5s) |
| **Insulation Resistance (I.R.)** | >100V(AT 100VDC 60S)<br>C≤0.33uF, IR≥30000MΩ<br>C>0.33uF, IR≥10000S<br>≤100V(AT 10VDC 60S)<br>C≤0.33uF, IR≥15000MΩ<br>C>0.33uF, IR≥5000S<br>注：T[s]=I.R.[MΩ]*$C_N$[μF] |

# Dimensions (mm) and Approval

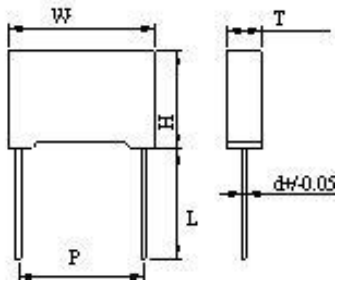
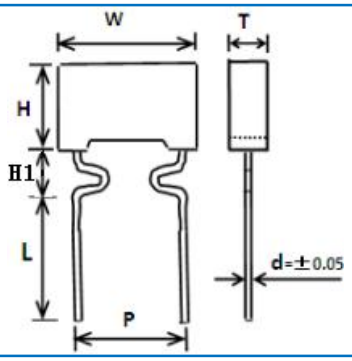



| Capacitance (uF) | Rated Voltage | Size (mm) | | | | |
|---|---|---|---|---|---|---|
| | | W±0.5 | H±0.5 | T±0.5 | P±1.0 | d±0.05 |
| 0.01 | 100VDC | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 |
| | 250VDC | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 |
| | 400VDC | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 |
| | 630VDC | 13.0 | 11.0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

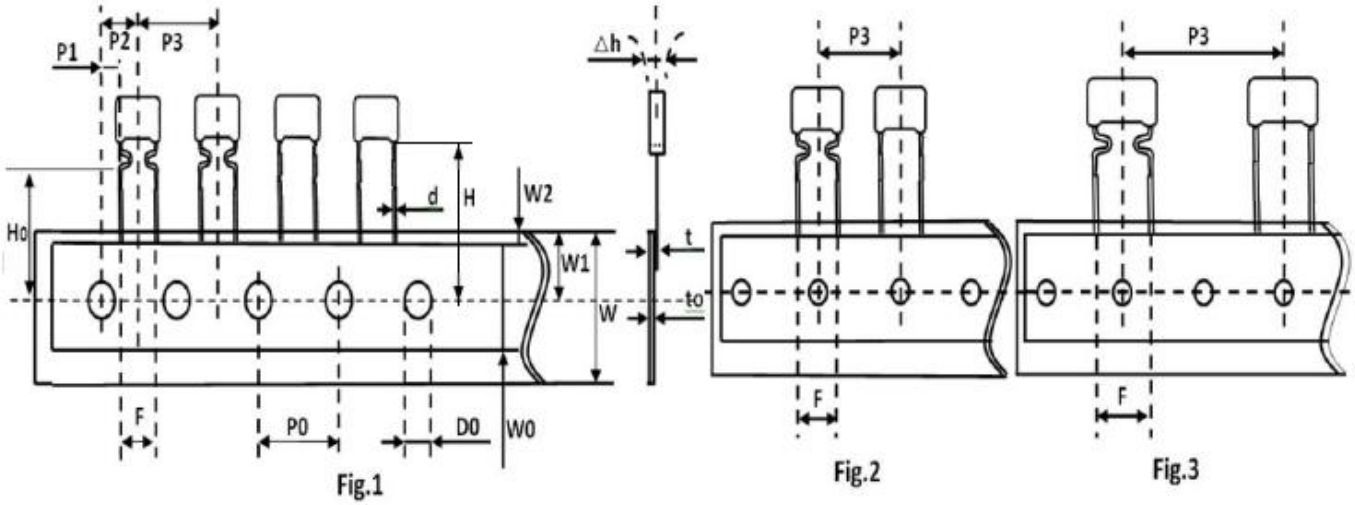
| Capacitance (uF) | Rated Voltage | Size (mm) | | | | |
|---|---|---|---|---|---|---|
| | | W±0.5 | H±0.5 | T±0.5 | P±1.0 | d±0.05 |
| 0.068 | 100VDC | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 |
| | 250VDC | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 |
| | 400VDC | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 |
| | 630VDC | 13.0 | 12.0 | 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;<br>②[6.0≤L≤10]+/-1.0 | / |
| Inner Crimped |  | ①[2.5≤L＜6.0]+/-0.5;<br>②[6.0≤L≤10]+/-1.0 | Pitch P＞10mm:H1＜6.0mm<br>Pitch P≤10mm:H1＜5.0mm |

# Taping Specification (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 |