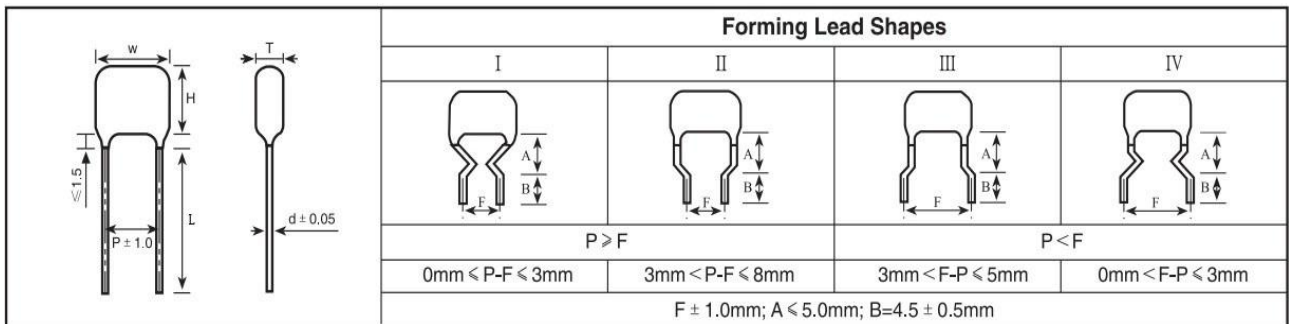


LED lamp capacitor CL21X(MES)

Subminiature Metallized Polyester Film Capacitor Type: CL21X

Are non-inductively wound or stacked with metallized polyester film as dielectric/electrode with copper-clad steel leads and epoxy resin coating.

◆ Outline Drawing:



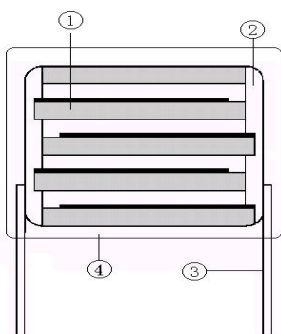
◆ Features:

- Appearance good consistency
- Good solder ability
- Non-inductive construction and self-healing property
- Space-Saving small size

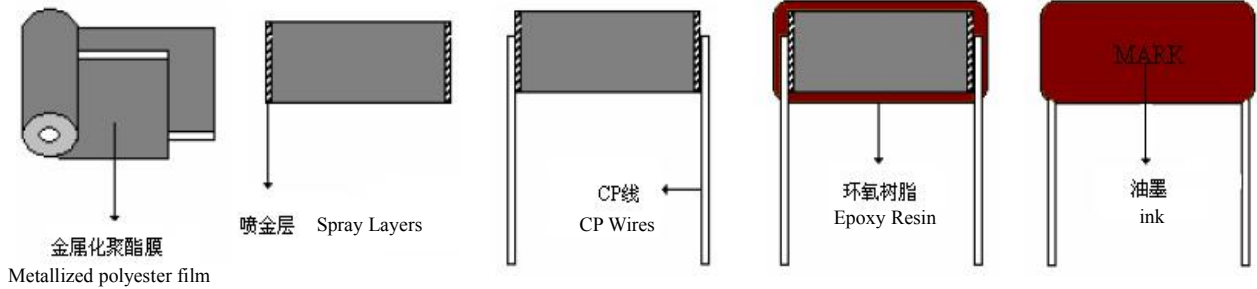
◆ Typical Applications:

- As intermediate circuit capacitors for SMPS, electronic ballast, inverter (i.e. DC-Link, DC-Filter P.F.C), Low Frequency Filter, Blocking of DC, By-pass and coupling circuit

◆ structure chart:



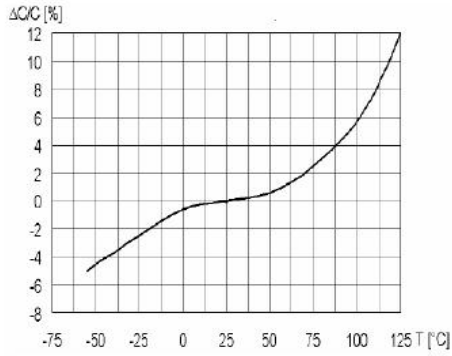
- ① Metallized polyester film
- ② Spray Layers
- ③ CP Wires
- ④ Epoxy Resin



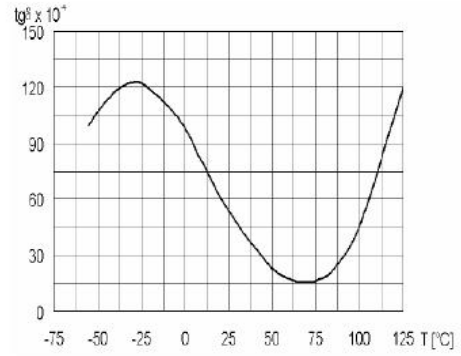
◆ **Specification:**

| | |
|------------------------------|---|
| Reference Standards: | GB7332-87(China) |
| Rated Voltage(UR): | 63VDC; 100VDC |
| Rated Temperature | 85°C (+85°C to +105°C, decreasing factor 1.25% per°C for VR (dc)) |
| Operation Temperature Range: | -40°C - +105°C |
| Capacitance Range: | 0.001μF – 1μF |
| Capacitance Tolerance Range: | J(±5%); K(±10%); M (±20%) |
| Dielectric: | Polyester Film |
| Dissipation Factor : | ≤0.8% (20°C 1kHz) |
| Insulation Resistance: | CR≤0.33μF ≥3750MΩ CR>0.33μF ≥1250S (MΩ.μF) |
| Withstand Voltage: | 1.6UR(5S) |
| Life. Test Conditions: | 85±2°C, 1.25UR, 1,000Hours Capacitance Drift: ≤±5% of the initial value Dissipation Factor ≤2-3% of initial value (10KHz, 20°C) |

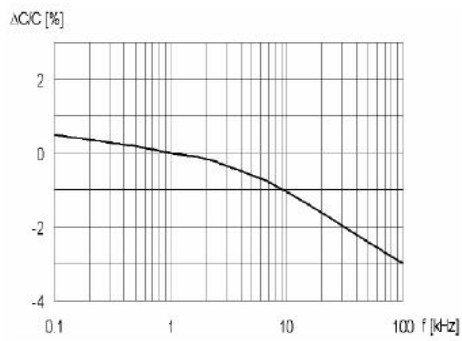
◆ Polyester film capacitor characteristic curve:



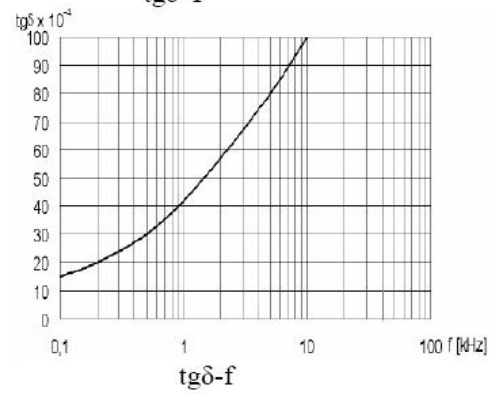
C-T



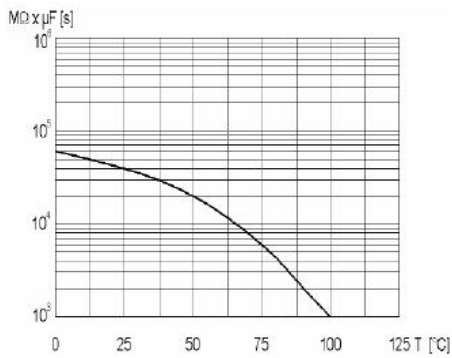
tgδ-T



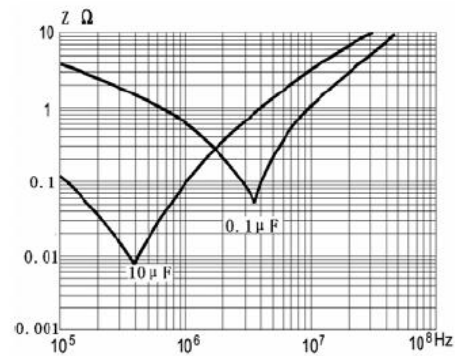
C-f



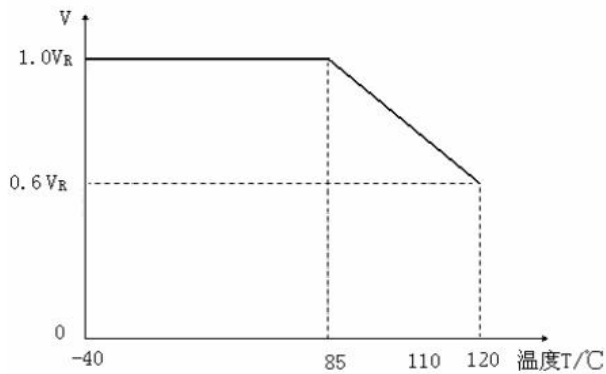
tgδ-f



R-T



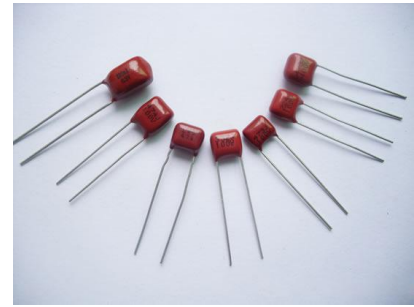
Z-f



T-V

◆ **Dimension Lists (mm) Diagram**

Subminiature Metallized Polyester Film Capacitor Type: CL21X



| Cap Code | Cap Value uF | Part No | Dimensions (mm) | | | |
|--------------|-----------------|----------------|-----------------|-------|-------|--------|
| | | | Wmax | T max | H max | P ±1.0 |
| 63VDC/100VDC | | | | | | |
| 102 | 0.001 | MES102J(K)100V | 7.3 | 4.0 | 7.0 | 5.0 |
| 122 | 0.0012 | MES122J(K)100V | 7.3 | 4.0 | 7.0 | 5.0 |
| 152 | 0.0015 | MES152J(K)100V | 7.3 | 4.0 | 7.0 | 5.0 |
| 182 | 0.0018 | MES182J(K)100V | 7.3 | 4.0 | 7.0 | 5.0 |
| 222 | 0.0022 | MES222J(K)100V | 7.3 | 4.0 | 7.0 | 5.0 |
| 272 | 0.0027 | MES272J(K)100V | 7.3 | 4.0 | 7.0 | 5.0 |
| 332 | 0.0033 | MES332J(K)100V | 7.3 | 4.0 | 7.0 | 5.0 |
| 392 | 0.0039 | MES392J(K)100V | 7.3 | 4.0 | 7.0 | 5.0 |
| 472 | 0.0047 | MES472J(K)100V | 7.3 | 4.0 | 7.0 | 5.0 |
| 562 | 0.0056 | MES562J(K)100V | 7.3 | 4.0 | 7.0 | 5.0 |
| 682 | 0.0068 | MES682J(K)100V | 7.3 | 4.0 | 7.0 | 5.0 |
| 822 | 0.0082 | MES822J(K)100V | 7.3 | 4.0 | 7.0 | 5.0 |
| 103 | 0.01 | MES103J(K)100V | 7.3 | 4.0 | 7.0 | 5.0 |
| 123 | 0.012 | MES123J(K)100V | 7.3 | 4.0 | 7.0 | 5.0 |
| 153 | 0.015 | MES153J(K)100V | 7.3 | 4.0 | 7.0 | 5.0 |
| 183 | 0.018 | MES183J(K)100V | 7.3 | 4.0 | 7.0 | 5.0 |
| 223 | 0.022 | MES223J(K)100V | 7.3 | 4.0 | 7.0 | 5.0 |
| 273 | 0.027 | MES273J(K)100V | 7.3 | 4.0 | 7.0 | 5.0 |
| 333 | 0.033 | MES333J(K)100V | 7.3 | 4.0 | 7.5 | 5.0 |
| 393 | 0.039 | MES393J(K)100V | 7.3 | 4.5 | 7.5 | 5.0 |
| 473 | 0.047 | MES473J(K)100V | 7.3 | 4.5 | 7.5 | 5.0 |
| 563 | 0.056 | MES563J(K)100V | 7.3 | 4.5 | 8.0 | 5.0 |
| 683 | 0.068 | MES683J(K)100V | 7.3 | 4.5 | 8.0 | 5.0 |

| | | | | | | |
|-----|-------|----------------|------|-----|------|-----|
| 823 | 0.082 | MES823J(K)100V | 7.3 | 4.5 | 8.0 | 5.0 |
| 104 | 0.1 | MES104J(K)100V | 7.3 | 4.5 | 9.5 | 5.0 |
| 124 | 0.12 | MES124J(K)100V | 10.2 | 4.5 | 8.0 | 7.5 |
| 154 | 0.15 | MES154J(K)100V | 10.2 | 4.5 | 9.0 | 7.5 |
| 184 | 0.18 | MES184J(K)100V | 10.2 | 4.5 | 9.0 | 7.5 |
| 224 | 0.22 | MES224J(K)100V | 10.2 | 5.0 | 9.5 | 7.5 |
| 274 | 0.27 | MES274J(K)100V | 10.2 | 5.5 | 10.0 | 7.5 |
| 334 | 0.33 | MES334J(K)100V | 10.2 | 5.0 | 8.0 | 7.5 |
| 394 | 0.39 | MES394J(K)100V | 10.2 | 5.0 | 8.5 | 7.5 |
| 474 | 0.47 | MES474J(K)100V | 10.2 | 6.0 | 10.2 | 7.5 |
| 564 | 0.56 | MES564J(K)100V | 10.2 | 6.0 | 9.0 | 7.5 |
| 684 | 0.68 | MES684J(K)100V | 10.2 | 6.5 | 9.0 | 7.5 |
| 824 | 0.82 | MES824J(K)100V | 10.2 | 7.0 | 10.0 | 7.5 |
| 105 | 1 | MES105J(K)100V | 10.2 | 7.5 | 11.0 | 7.5 |