

PLASTIC FILM CAPACITORS

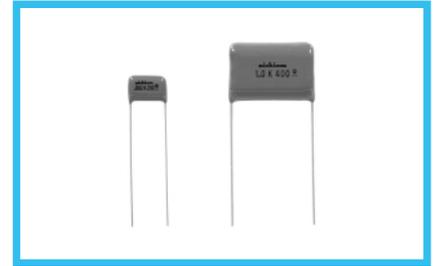


XK-(ZH)

Metallized Polyester Film Capacitor

series (Extended Standard Type)

- Highly reliable and superior performance in high frequency applications, self-healing and non-inductive construction, using a dielectric made of polyethylene terephthalate film covered with vacuum-evaporated metal.
- Finished by inner dipping with liquid epoxy resin and outer coating with flame-retardant epoxy resin, those double coating provides excellent humidity resistance.
- Designed to be compact and to cover larger capacitance range having advantage of tolerating to A.C.voltage and large current flow.
- Designed 1mm max. of epoxy on lead wire for best performance at soldering process on P.C. board assemblies.
- Compliant to the RoHS directive (2002/95/EC).



Applications

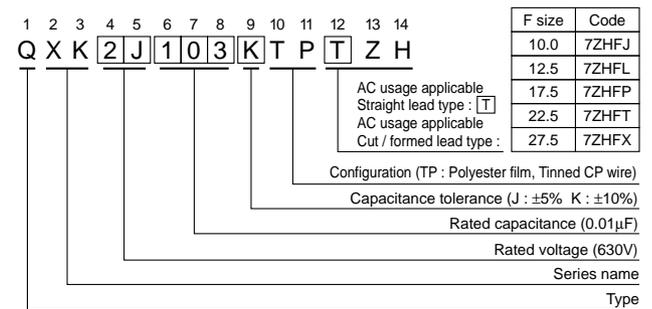
- Filtering, DC-blocking, coupling and so on of general communications equipment and use in AC circuits for motor starting, charging / discharging, lighting, noise suppression and etc. Contact us for details for use in AC circuits.
- However, do not use this product for across-the-line applications.

Specifications

| Item | Performance Characteristics |
|---------------------------------|---|
| Category Temperature Range | -40 to +105°C (Rated temperature : 85°C) |
| Rated Voltage (U _R) | 250, 400, 630VDC |
| Rated Capacitance Range | 0.01 to 3.3μF |
| Rated Capacitance Tolerance | ±5% (J), ±10% (K) |
| Dielectric Loss Tangent | 0.8% or less (at 1kHz 20°C) |
| Insulation Resistance | C ≤ 0.33μF : 9000 MΩ or more C > 0.33μF : 3000 ΩF or more |
| Withstand Voltage | Between Terminals : Rated Voltage × 175%, 1 to 5 secs. Between Terminals and Coverage : Rated Voltage × 200%, 1 to 5 secs. |
| Encapsulation | Flame-retardant epoxy resin |

Category voltage = U_R × 0.7

Type numbering system (Example : 630V 0.01μF)



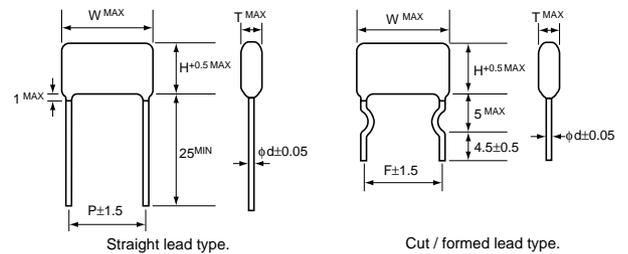
AC Voltage

- AC voltage (Operating at 50 / 60Hz AC circuit) shall be as follows. However, do not use this product for across-the-line applications.

| DC Rated Voltage | 250VDC | 400VDC | 630VDC |
|------------------|--------|--------|--------|
| AC Voltage | 125VAC | 200VAC | 250VAC |

- When used in high frequency circuit, refer to Table 2 and 3 in pages 333, 336 for the values of effective voltage, current and effective VA.

Drawing



Dimensions

Unit : mm

| Cap.(μF) | V(Code) | Code | Size | 250VDC (2E) | | | | | | 400VDC (2G) | | | | | | 630VDC (2J) | | | | | |
|----------|---------|------|------|-------------|-----|------|------|------|------|-------------|-----|------|------|------|------|-------------|------|------|------|------|------|
| | | | | T | W | H | d | P | F | T | W | H | d | P | F | T | W | H | d | P | F |
| 0.01 | 103 | | | | | | | | | | | | | | | 4.8 | 15.5 | 8.9 | 0.6 | 12.5 | 12.5 |
| 0.015 | 153 | | | | | | | | | | | | | | | 5.5 | 15.5 | 9.5 | 0.6 | 12.5 | 12.5 |
| 0.022 | 223 | | | | | | | | 4.9 | 13.5 | 9.0 | 0.6 | 10.5 | 10.0 | 6.3 | 15.5 | 10.3 | 0.6 | 12.5 | 12.5 | |
| 0.033 | 333 | | | | | | | | 5.6 | 13.5 | 9.7 | 0.6 | 10.5 | 10.0 | 7.1 | 15.5 | 11.8 | 0.6 | 12.5 | 12.5 | |
| 0.047 | 473 | 4.7 | 13.5 | 8.8 | 0.6 | 10.5 | 10.0 | 5.5 | 15.5 | 9.6 | 0.6 | 12.5 | 12.5 | 6.2 | 20.5 | 11.0 | 0.6 | 17.5 | 17.5 | | |
| 0.068 | 683 | 4.7 | 13.5 | 8.8 | 0.6 | 10.5 | 10.0 | 6.3 | 15.5 | 10.4 | 0.6 | 12.5 | 12.5 | 6.7 | 20.5 | 13.0 | 0.6 | 17.5 | 17.5 | | |
| 0.1 | 104 | 5.3 | 13.5 | 9.4 | 0.6 | 10.5 | 10.0 | 7.3 | 15.5 | 11.4 | 0.6 | 12.5 | 12.5 | 7.8 | 20.5 | 14.1 | 0.6 | 17.5 | 17.5 | | |
| 0.15 | 154 | 5.5 | 15.5 | 9.6 | 0.6 | 12.5 | 12.5 | 6.6 | 20.5 | 11.3 | 0.6 | 17.5 | 17.5 | 8.0 | 26.0 | 14.8 | 0.8 | 22.5 | 22.5 | | |
| 0.22 | 224 | 6.3 | 15.5 | 10.4 | 0.6 | 12.5 | 12.5 | 7.7 | 20.5 | 12.4 | 0.6 | 17.5 | 17.5 | 8.9 | 26.0 | 17.1 | 0.8 | 22.5 | 22.5 | | |
| 0.33 | 334 | 7.4 | 15.5 | 11.5 | 0.6 | 12.5 | 12.5 | 8.6 | 20.5 | 14.8 | 0.6 | 17.5 | 17.5 | 10.9 | 26.0 | 19.3 | 0.8 | 22.5 | 22.5 | | |
| 0.47 | 474 | 6.7 | 20.5 | 11.4 | 0.6 | 17.5 | 17.5 | 10.1 | 20.5 | 16.4 | 0.6 | 17.5 | 17.5 | 11.3 | 31.0 | 19.7 | 0.8 | 27.5 | 27.5 | | |
| 0.68 | 684 | 7.2 | 20.5 | 13.5 | 0.6 | 17.5 | 17.5 | 9.5 | 26.0 | 17.9 | 0.8 | 22.5 | 22.5 | | | | | | | | |
| 1.0 | 105 | 8.6 | 20.5 | 14.8 | 0.6 | 17.5 | 17.5 | 11.5 | 26.0 | 19.9 | 0.8 | 22.5 | 22.5 | | | | | | | | |
| 1.5 | 155 | 8.3 | 26.0 | 16.6 | 0.8 | 22.5 | 22.5 | 12.3 | 31.0 | 20.6 | 0.8 | 27.5 | 27.5 | | | | | | | | |
| 2.2 | 225 | 10.0 | 26.0 | 18.3 | 0.8 | 22.5 | 22.5 | | | | | | | | | | | | | | |
| 3.3 | 335 | 10.7 | 31.0 | 19.1 | 0.8 | 27.5 | 27.5 | | | | | | | | | | | | | | |

F : lead pitch for cut / formed lead wires