# PLASTIC FILM CAPACITORS

ХК-(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

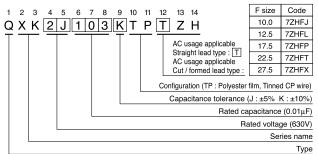
Item	Performance Characteristics								
Category Temperature Range	-40 to +105°C (Rated temperature : 85°C)								
Rated Voltage (UR)	250, 400, 630VDC								
Rated Capacitance Range	0.01 to 3.3µF								
Rated Capacitance Tolerance	±5% (J), ±10% (K)								
Dielectric Loss Tangent	0.8% or less (at 1kHz 20°C)								
Insulation Resistance	$\label{eq:constraint} C \leq 0.33 \mu F : 9000 \ \text{M}\Omega \ \text{or more}  C > 0.33 \mu F : 3000 \ \Omega F \ \text{or more}$								
Withstand Voltage	$\label{eq:Between Terminals} E ated \ Voltage \times 175\%, \ 1 \ to \ 5 \ secs.$ Between Terminals and Coverage : Rated Voltage $\times 200\%, \ 1 \ to \ 5 \ secs.$								
Encapsulation	Flame-retardant epoxy resin								

Category voltage = UR × 0.7

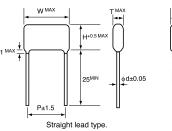
## AC Voltage

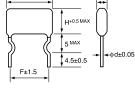
- AC voltage (Operating at 50 / 60Hz AC circuit) shall be as follows. However, do not use this product for across-the-line applications. DC Rated Voltage 250VDC 400VDC 630VDC AC Voltage 125VAC 200VAC 250VAC
- When used in high frequency circuit, refer to Table 2 and 3 in pages 339, 342 for the values of effective voltage, current and effective VA.

## Type numbering system (Example : 630V 0.01µF)



Drawing





W MAX

Cut / formed lead type

#### Dimensions

Dimensions Unit : mm													nit : mm						
	V(Code)	250VDC (2E)					400VDC (2G)						630VDC (2J)						
Cap.(µF) Co	de Size	Т	W	н	d	Р	F	Т	W	н	d	Р	F	Т	W	Н	d	Р	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

# CAT.8100Z

