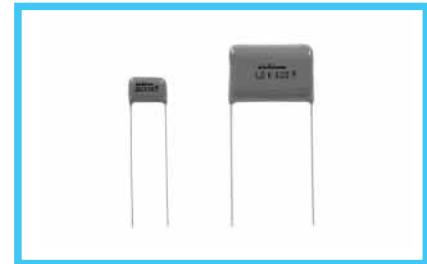


XK-(ZH)

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.
- Taping type (capacitor width (W) must be 20.0mm or less.) for automatic insertion system is also available.
- Adapted 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 ~ +105°C (Rated temperature : 85°C)	
Rated Voltage (U _r)	250, 400, 630V.D.C.	
Rated Capacitance Range	0.01 ~ 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 MΩ or more	
Withstand Voltage	Between Terminals	: Rated Voltage × 175%, 1 ~ 5 secs.
	Between Terminals and Coverage	: Rated Voltage × 200%, 1 ~ 5 secs.
Encapsulation	Flame-retardant epoxy resin	

Category voltage = U_r × 0.7

Type numbering system (Example : 630V 0.01μF)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	F size	Code
Q	X	K	2	J	1	0	3	K	T	P	T	Z	H	10.0	7ZHFJ
														12.5	7ZHFL
														17.5	7ZHFP
														22.5	7ZHFT
														27.5	7ZHFX
AC usage applicable														Configuration (TP : Polyester film, Tinned CP wire)	
Straight lead type : <input checked="" type="checkbox"/>														AC usage applicable	
Cut / formed lead type : <input type="checkbox"/>														Cut / formed lead type :	
AC usage applicable														Rated Capacitance (0.01μF)	
Capacitance tolerance (J : ±5% K : ±10%)														Rated Capacitance (0.01μF)	
Rated Voltage (630V)														Series name	
Type														Type	

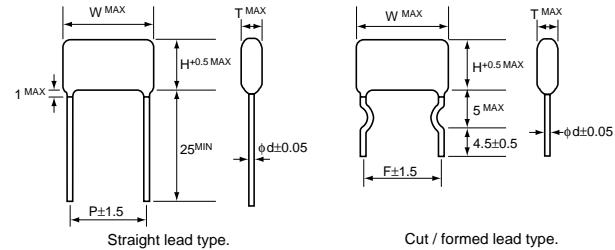
AC Voltage

- 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 264, 267 for the values of effective voltage, current and effective VA.

■ Drawing



■ Dimensions

Cap.(μF)	Code	Size	250VDC (2E)					400VDC (2G)					630VDC (2J)					Unit : mm									
			T	W	H	d	P	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