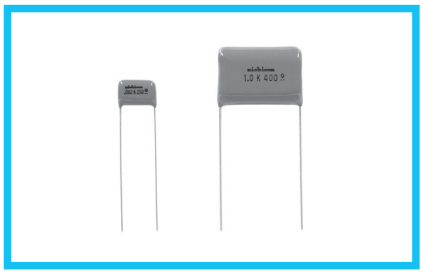
QXK-(ZH)

Metallized Polyester Film Capacitor

(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 (2011/65/EU).

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)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Q	X	K	2	J	1	0	3	K	T	P	T	Z	H

F size	Code
10.0	7ZHFJ
12.5	7ZHFL
17.5	7ZHFP
22.5	7ZHFT
27.5	7ZHFX

12: AC usage applicable Straight lead type : T / AC usage applicable Cut / formed lead type :
10: Configuration (TP : Polyester film, Tinned CP wire)
9: Capacitance tolerance (J : ±5% K : ±10%)
6 7 8: Rated capacitance (0.01μF)
4 5: Rated voltage (630V)
2 3: Series name
1: Type

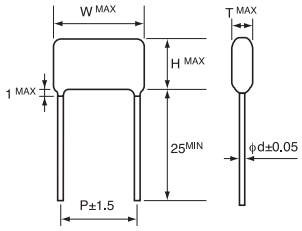
AC Voltage

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

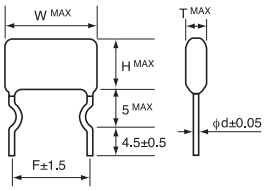
DC Rated Voltage	250VDC	400VDC	630VDC
AC Voltage	125VAC	200VAC	250VAC

- When used in high frequency circuit, refer to Table 2 and 3 in pages 386, 389 for the values of effective voltage, current and effective VA.

■ Drawing



Straight lead type.



Cut / formed lead type.

■ Dimensions

Unit : mm

Cap.(μF)	Code \ V(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	9.4	0.6	12.5	12.5
0.015	153													5.5	15.5	10.0	0.6	12.5	12.5
0.022	223							4.9	13.5	9.5	0.6	10.5	10.0	6.3	15.5	10.8	0.6	12.5	12.5
0.033	333							5.6	13.5	10.2	0.6	10.5	10.0	7.1	15.5	12.3	0.6	12.5	12.5
0.047	473	4.7	13.5	9.3	0.6	10.5	10.0	5.5	15.5	10.1	0.6	12.5	12.5	6.2	20.5	11.5	0.6	17.5	17.5
0.068	683	4.7	13.5	9.3	0.6	10.5	10.0	6.3	15.5	10.9	0.6	12.5	12.5	6.7	20.5	13.5	0.6	17.5	17.5
0.1	104	5.3	13.5	9.9	0.6	10.5	10.0	7.3	15.5	11.9	0.6	12.5	12.5	7.8	20.5	14.6	0.6	17.5	17.5
0.15	154	5.5	15.5	10.1	0.6	12.5	12.5	6.6	20.5	11.8	0.6	17.5	17.5	8.0	26.0	15.3	0.8	22.5	22.5
0.22	224	6.3	15.5	10.9	0.6	12.5	12.5	7.7	20.5	12.9	0.6	17.5	17.5	8.9	26.0	17.6	0.8	22.5	22.5
0.33	334	7.4	15.5	12.0	0.6	12.5	12.5	8.6	20.5	15.3	0.6	17.5	17.5	10.9	26.0	19.8	0.8	22.5	22.5
0.47	474	6.7	20.5	11.9	0.6	17.5	17.5	10.1	20.5	16.9	0.6	17.5	17.5	11.3	31.0	20.2	0.8	27.5	27.5
0.68	684	7.2	20.5	14.0	0.6	17.5	17.5	9.5	26.0	18.4	0.8	22.5	22.5						
1.0	105	8.6	20.5	15.3	0.6	17.5	17.5	11.5	26.0	20.4	0.8	22.5	22.5						
1.5	155	8.3	26.0	17.1	0.8	22.5	22.5	12.3	31.0	21.1	0.8	27.5	27.5						
2.2	225	10.0	26.0	18.8	0.8	22.5	22.5												
3.3	335	10.7	31.0	19.6	0.8	27.5	27.5												

F : lead pitch for cut / formed lead wires

Mouser Electronics

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Nichicon:

QXK2E154KTP7ZHFL QXK2E334KTPTZH QXK2G474KTPTZH QXK2J333KTPZH QXK2J104KTP7ZHFP QXK2J683KTP7ZHFP QXK2G223JTPTZH QXK2E224KTPTZH QXK2G104KTPTZH QXK2G105KTPTZH QXK2G224KTPTZH QXK2G473KTPTZH QXK2J103KTPTZH QXK2J104KTPTZH QXK2J153KTPTZH QXK2J223KTPTZH QXK2J224KTPTZH QXK2J473KTPTZH QXK2E104KTPTZH QXK2E105KTPTZH QXK2J474KTPTZH QXK2J333KTPTZH QXK2E473KTPTZH QXK2E683KTPTZH QXK2E154KTPTZH QXK2E474KTPTZH QXK2E684KTPTZH QXK2E155KTPTZH QXK2E225KTPTZH QXK2E335KTPTZH QXK2G223KTPTZH QXK2G333KTPTZH QXK2G683KTPTZH QXK2G154KTPTZH QXK2G334KTPTZH QXK2G684KTPTZH QXK2G155KTPTZH QXK2J683KTPTZH QXK2J154KTPTZH QXK2J334KTPTZH QXK2E224JTPTZH QXK2E104KTP7ZHFJ QXK2J104JTPTZH QXK2G104KTP7ZHFL QXK2E104JTP7ZHFJ QXK2E104JTPTZH QXK2J103KTP7ZHFL QXK2J223KTP7ZHFL