PLASTIC FILM CAPACITORS

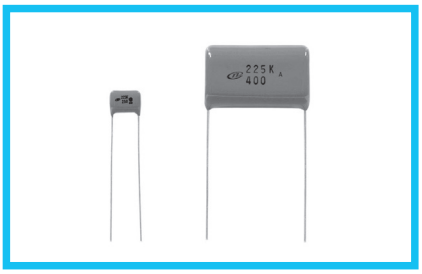
nichicon

QXK

Metallized Polyester Film Capacitor

(Extended Standard Type)

Smaller



- 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.
- Large capacitance in small dimensions.
- Finished by inner dipping with liquid epoxy resin and outer coating with flame-retardant epoxy resin, those double coating provides excellent humidity resistance.
- 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,(EU)2015/863).

Applications

- General electronic and communications equipment. 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 10μF
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

※ Except for 250VDC 0.01 to 0.15μF
400VDC 0.01 to 0.033μF

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			

F size	Code
7.5	7FG
10.0	7FJ
15.0	7FM
22.5	7FT
27.5	7FX

Cut / formed lead type

Configuration
(TP : Polyester film, Tinned CP wire)

Capacitance tolerance (J : ±5% K : ±10%)

Rated capacitance (0.01μF)

Rated voltage (630V)

Series name

Type

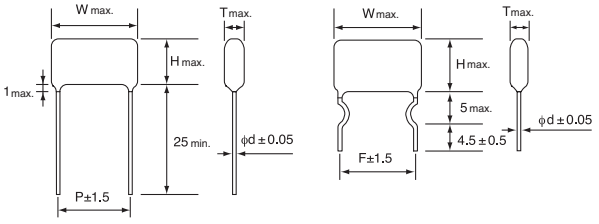
AC Voltage

- 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 operating capacitors in the high frequency circuit, maximum permissible value (VAC) can be calculated from table 2, provided that the effective current (Ie) and the effective VA (Ve x Ve) shall not exceed the values specified in table 4.Shown in the Guidelines for Plastic Film Capacitors.

Drawing



Straight lead type. Cut / formed lead type.

Dimensions

Unit : mm

Cap.(μF)	V(Code) / Size / Code	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	4.4	11.0	8.1	0.6	7.5	7.5	4.4	11.0	8.1	0.6	7.5	7.5	4.4	13.5	9.5	0.6	10.0	10.0
0.015	153	5.0	11.0	8.7	0.6	7.5	7.5	5.0	11.0	8.7	0.6	7.5	7.5	4.7	13.5	9.8	0.6	10.0	10.0
0.022	223	4.4	11.0	8.5	0.6	7.5	7.5	4.3	11.0	8.4	0.6	7.5	7.5	5.1	13.5	10.8	0.6	10.0	10.0
0.033	333	4.4	11.0	8.5	0.6	7.5	7.5	4.9	11.0	9.1	0.6	7.5	7.5	5.9	13.5	11.6	0.6	10.0	10.0
0.047	473	4.0	11.0	8.1	0.6	7.5	7.5	4.7	13.5	9.8	0.6	10.0	10.0	6.4	13.5	13.7	0.6	10.0	10.0
0.068	683	4.7	11.0	8.7	0.6	7.5	7.5	5.4	13.5	10.5	0.6	10.0	10.0	5.8	18.5	11.5	0.6	15.0	15.0
0.1	104	5.2	11.0	9.4	0.6	7.5	7.5	6.1	13.5	11.7	0.6	10.0	10.0	6.4	18.5	13.7	0.6	15.0	15.0
0.15	154	6.1	11.0	10.3	0.6	7.5	7.5	5.1	18.5	12.4	0.6	15.0	15.0	7.1	18.5	15.9	0.6	15.0	15.0
0.22	224	5.9	13.5	11.0	0.6	10.0	10.0	5.9	18.5	13.2	0.6	15.0	15.0	9.6	18.5	15.3	0.6	15.0	15.0
0.33	334	6.7	13.5	12.4	0.6	10.0	10.0	7.6	18.5	13.3	0.6	15.0	15.0	7.9	25.5	16.7	0.8	22.5	22.5
0.47	474	5.5	18.5	12.8	0.6	15.0	15.0	8.3	18.5	15.6	0.6	15.0	15.0	9.4	25.5	18.2	0.8	22.5	22.5
0.68	684	6.0	18.5	14.8	0.6	15.0	15.0	7.2	25.5	16.1	0.8	22.5	22.5	11.3	25.5	20.1	0.8	22.5	22.5
1.0	105	7.1	18.5	16.0	0.6	15.0	15.0	8.7	25.5	17.6	0.8	22.5	22.5	12.0	30.5	21.0	0.8	27.5	27.5
1.5	155	9.9	18.5	15.6	0.6	15.0	15.0	9.4	30.5	18.5	0.8	27.5	27.5	14.8	30.5	23.8	0.8	27.5	27.5
2.2	225	8.1	25.5	17.0	0.8	22.5	22.5	11.5	30.5	20.5	0.8	27.5	27.5	18.5	30.5	28.0	0.8	27.5	27.5
3.3	335	10.0	25.5	18.8	0.8	22.5	22.5												
4.7	475	12.0	25.5	20.8	0.8	22.5	22.5												
6.8	685	12.7	30.5	21.8	0.8	27.5	27.5												
10.0	106	15.6	30.5	24.7	0.8	27.5	27.5												

F : lead pitch for cut / formed lead wires

Since rating other than the above can be manufactured, please ask for detail.

Mouser Electronics

Authorized Distributor

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Nichicon:

QXK2J104KTP2NACC QXK2J153JTP QXK2E105KTP QXK2E684KTP QXK2E104KTP3TL QXK2E823JTP3TE QXK2E334KTP7FJ QXK2E224KTPTZG QXK2G473KTP QXK2E224KTP7FJ QXK2E824KTP QXK2G105KTP QXK2G154KTP QXK2G224KTP QXK2G473KTP3TE QXK2J684JTP QXK2E106KTP QXK2E225KTP7FT QXK2E335KTP QXK2E154KTP QXK2E224KTP QXK2E103KTP QXK2E153KTP QXK2E223KTP QXK2E333KTP QXK2E473KTP QXK2E683KTP QXK2E104KTP QXK2E334KTP QXK2E474KTP QXK2E155KTP QXK2E225KTP QXK2E475KTP QXK2E685KTP QXK2G103KTP QXK2G153KTP QXK2G223KTP QXK2G333KTP QXK2G683KTP QXK2G104KTP QXK2G334KTP QXK2G474KTP QXK2G684KTP QXK2G155KTP QXK2G225KTP QXK2J103KTP QXK2J153KTP QXK2J223KTP QXK2J333KTP QXK2J473KTP QXK2J683KTP QXK2J104KTP QXK2J154KTP QXK2J224KTP QXK2J334KTP QXK2J474KTP QXK2J684KTP QXK2J105KTP QXK2J155KTP QXK2J225KTP QXK2G225JTP QXK2J103JTP QXK2J103KTP7FJ QXK2J104KTP7FM QXK2E475JTP7FT QXK2G103KTP7FG QXK2E103KTP7FG QXK2E104KTP7FG QXK2G474KTP7FM QXK2G105JTP QXK2J105KTP7FX QXK2E335KTP7FT QXK2E474KTP7FM QXK2E685KTP7FX QXK2E335JTP QXK2J224KTP7FM QXK2E105JTP QXK2E154KTP7FG QXK2G104JTP QXK2E223KTP7FG QXK2E105KTP7FM QXK2J104JTP QXK2G223KTP7FG QXK2E685JTP7FX QXK2J223KTP7FJ QXK2E106JTP7FX QXK2E106KTP7FX QXK2E474JTP7FM QXK2E153KTP7FG QXK2G333KTP7FG QXK2E333KTP7FG QXK2G474JTP7FM QXK2G104KTP7FJ QXK2G684KTP7FT QXK2G224KTP7FM QXK2G474JTP QXK2E334JTP QXK2E474JTP QXK2E684JTP QXK2E155JTP