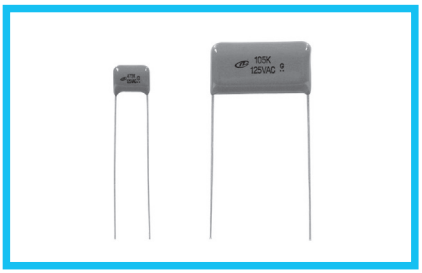
nichicon

QXL

Metallized Polyester Film Capacitor

for 105˚C (Electrical Appliance and Material Safety Law (Japan) approved for AC power source)

- Highly reliable and superior in high frequency applications, self-healing and non-inductive construction, using a dielectric of metallized polyester film.
- Finished by inner dipping, with liquid epoxy resin and outer coating with flame-retardant epoxy resin, those double coatings provide excellent humidity resistance.
- Designed in a small and compact size, but yet with higher capacitance, for high density mounting.
- Compliant to the RoHS directive (2011/65/EU).



Specifications

Item	Performance Characteristics
Category Temperature Range	−40 to +105˚C
Rated Voltage	125, 250VAC
Rated Capacitance Range	Safety performance A1 0.01 to 0.47μF ※ Safety performance C1 0.1 to 1.0μF
Capacitance Tolerance	±10% (K)
Dielectric Loss Tangent	0.8% or less (at 1kHz 20˚C)
Insulation Resistance	C ≦ 0.47μF 2000 MΩ or more C > 0.47μF 1000 ΩF or more
Withstand Voltage	Between Terminals : Rated Voltage × 2.3VAC 1min. (Safety performance : A1) / Rated Voltage × 1.75VAC 1 min. (Safety performance : C1) Between Terminals Coverage : (Rated Voltage 125VAC) 1000VAC 1 min. / (Rated Voltage 250VAC) 1500VAC 1 min.
Encapsulation	Flame-retardant epoxy resin

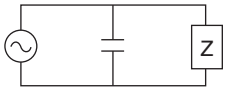
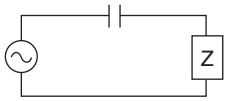
Type numbering system (Example : 250VAC 0.1μF)

1	2	3	4	5	6	7	8	9	10	11	12
Q	X	L	2	E	1	0	4	K	T	P	T

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

12: AC usage applicable Straight lead type: T / AC usage applicable Cut/formed lead type:
11: Configuration (TP:Polyester film, Tinned CP wire)
10: Capacitance tolerance (±10% : K)
9: Rated capacitance (0.1μF)
8 7 6: Rated voltage (250V)
5 4: Series name
3 2 1: Type

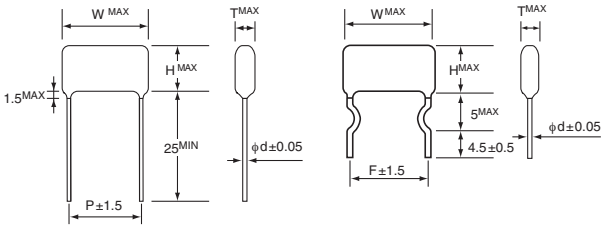
Safety performance

Symbol	A1	C1
	Connected with load in parallel	Connected with load in series
Connecting Condition		
Capacitance	0.01 to 0.47μF ※	0.1 to 1.0μF

Note : When using capacitors as an across-the-line capacitor, at least either one of the conditions shown below has to be fulfilled:

1) A varistor of 2 times or below of rated voltage shall be connected with a capacitor in parallel.
2) Pulse of higher than rated voltage × 2 shall not be applied to both terminals of capacitor.

Drawing



Straight lead type. Cut / formed lead type.

Dimensions

Unit : mm

Cap.(μF) \ V(Code) / Code / Size		125VAC (2B)						250VAC (2E)					
		T	W	H	d	P	F	T	W	H	d	P	F
0.01	103							4.4	13.5	9.5	0.6	10.0	10.0
0.015	153							4.7	13.5	9.8	0.6	10.0	10.0
0.022	223	4.3	11.0	7.9	0.6	7.5	7.5	5.1	13.5	10.8	0.6	10.0	10.0
0.033	333	4.6	11.0	8.2	0.6	7.5	7.5	5.9	13.5	11.6	0.6	10.0	10.0
0.047	473	5.1	11.0	8.8	0.6	7.5	7.5	6.4	13.5	13.7	0.6	10.0	10.0
0.068	683	5.8	11.0	9.5	0.6	7.5	7.5	5.8	18.5	11.5	0.6	15.0	15.0
0.1	104	6.8	11.0	10.4	0.6	7.5	7.5	6.4	18.5	13.7	0.6	15.0	15.0
0.15	154	6.5	13.5	11.1	0.6	10.0	10.0	7.1	18.5	15.9	0.6	15.0	15.0
0.22	224	7.6	13.5	12.2	0.6	10.0	10.0	9.6	18.5	15.3	0.6	15.0	15.0
0.33	334	6.7	18.5	11.9	0.6	15.0	15.0	7.9	25.5	16.7	0.8	22.5	22.5
0.47	474	7.7	18.5	12.9	0.6	15.0	15.0	9.4	25.5	18.2	0.8	22.5	22.5
0.68	684	9.1	18.5	14.3	0.6	15.0	15.0						
1.0	105	8.0	25.5	15.3	0.8	22.5	22.5						

F : lead pitch for cut / formed lead wires.

※ In case of safety performance A1, we can also custom-make for 0.47μF or more as well. Please contact us and let us know the specification you need.

Mouser Electronics

Authorized Distributor

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Nichicon:

QXL2B474KTPTZH QXL2E223KRP7FL QXL2E223KTP3TE QXL2E223KTP7FJ QXL2B334KTPT QXL2B105KTPT QXL2B683KTPT QXL2E224KTPT QXL2E104KTPT QXL2E473KTPT QXL2E223KTPT QXL2B333KTPT QXL2B104KTPT QXL2B474KTPT QXL2E334KTPT QXL2B473KTPT QXL2E154KTPT QXL2E333KTPT QXL2B684KTPT QXL2E683KTPT QXL2B224KTPT QXL2E153KTPT QXL2E103KTPT QXL2B223KTPT QXL2E474KTPT QXL2B154KTPT