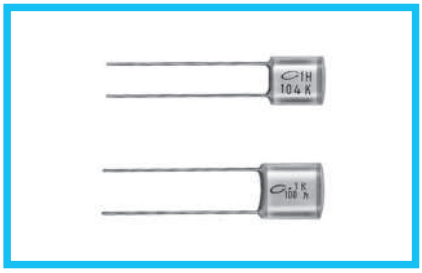
PLASTIC FILM CAPACITORS

nichicon

QYX

Foil Type Polyester Film Capacitor

(Standard type)

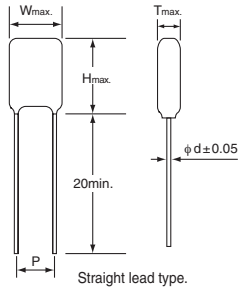


- Inductive construction, using a dielectric of polyester film together with aluminum foil.
- Coated with epoxy resin for superior heat resistance, humidity resistance and solvent resistance.
- Suited for use in commercial and industrial applications.
- Available for automatic insertion systems.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

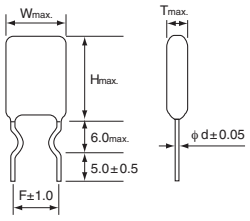
Specifications

Item	Performance Characteristics
Category Temperature Range	−40 to +85˚C
Rated Voltage	50, 100VDC
Rated Capacitance Range	0.001 to 0.47μF
Capacitance Tolerance	±5% (J), ±10% (K)
Dielectric Loss Tangent	0.8% or less (at 1kHz 20˚C)
Insulation Resistance	30000 MΩ or more
Withstand Voltage	Between Terminals : Rated Voltage × 250%, 1 to 5 secs. Between Terminals and Coverage : Rated Voltage × 200%, 1 to 5 secs.
Encapsulation	Epoxy resin

Drawing



Straight lead type.



Cut / formed lead type.

Type numbering system (Example : 50V 0.047μF)

1	2	3	4	5	6	7	8	9	10	11	12
Q	Y	X	1	H	4	7	3	K	T	P	

F size	Code
5.0	1FD
7.5	1FG

12 : Cut / formed lead type.
10 11 : Configuration (TP : Polyester film, Tinned CP wire)
9 : Capacitance tolerance (±5% : J ±10% : K)
6 7 8 : Rated capacitance (0.047μF)
4 5 : Rated voltage (50V)
3 : Series name
1 2 : Type

Dimensions

Unit : mm

Cap.(μF)	Code	V (Code) / Size	50VDC (1H) T	W	H	d	P	F	100VDC (2A) T	W	H	d	P	F
0.001	102		2.5	5.0	8.5	0.5	3.5 ± 0.75	5.0	2.8	5.5	11.5	0.5	$3.5^{+1.0}_{-1.2}$	5.0
0.0015	152		2.5	5.0	8.5	0.5	3.5 ± 0.75	5.0	2.8	5.5	12.0	0.5	$3.5^{+1.0}_{-1.2}$	5.0
0.0022	222		3.0	5.5	8.5	0.5	3.5 ± 0.75	5.0	2.8	5.5	12.0	0.5	$3.5^{+1.0}_{-1.2}$	5.0
0.0033	332		3.0	5.5	8.5	0.5	3.5 ± 0.75	5.0	2.8	5.5	12.0	0.5	$3.5^{+1.0}_{-1.2}$	5.0
0.0047	472		3.0	6.0	8.5	0.5	3.5 ± 0.75	5.0	3.0	6.0	12.0	0.5	$3.5^{+1.0}_{-1.2}$	5.0
0.0068	682		3.5	6.0	8.5	0.5	3.5 ± 0.75	5.0	3.0	6.0	12.0	0.5	5.0± 1.0	5.0
0.01	103		3.5	6.0	8.5	0.5	3.5 ± 0.75	5.0	3.0	6.5	12.0	0.5	5.0± 1.0	5.0
0.015	153		3.5	6.0	10.0	0.5	3.5 ± 0.75	5.0	3.0	6.5	13.0	0.5	5.0± 1.0	5.0
0.022	223		3.5	6.5	10.5	0.5	3.5 ± 0.75	5.0	3.5	7.0	13.0	0.5	5.0± 1.0	5.0
0.033	333		4.0	7.0	10.5	0.5	3.5 ± 0.75	5.0	3.5	7.5	13.0	0.5	5.0± 1.0	5.0
0.047	473		4.5	7.5	11.0	0.5	5.0 ± 1.0	5.0	4.5	8.5	14.0	0.5	5.0± 1.0	5.0
0.068	683		5.0	8.0	11.0	0.5	5.0 ± 1.0	5.0	4.5	9.5	14.0	0.5	$7.5^{+1.0}_{-1.2}$	7.5
0.1	104		5.5	9.0	12.0	0.5	5.0 ± 1.0	5.0	5.5	11.0	14.0	0.5	$7.5^{+1.0}_{-1.2}$	7.5
0.15	154		6.5	10.0	13.5	0.5	5.0 ± 1.0	5.0	6.0	12.5	15.5	0.5	$10.0^{+1.0}_{-1.2}$	7.5
0.22	224		7.0	11.0	13.5	0.5	$7.5^{+1.0}_{-1.2}$	7.5	7.0	14.0	15.5	0.5	$10.0^{+1.0}_{-1.2}$	7.5
0.33	334		8.0	12.5	16.0	0.6	$7.5^{+1.0}_{-1.2}$	7.5	8.0	14.5	18.5	0.6	$10.0^{+1.0}_{-1.2}$	7.5
0.47	474		9.5	14.0	16.5	0.6	$7.5^{+1.0}_{-1.2}$	7.5	9.5	16.5	18.5	0.6	$10.0^{+1.0}_{-1.2}$	7.5

F : lead pitch for cut / formed lead wires.