

# PLASTIC FILM CAPACITORS

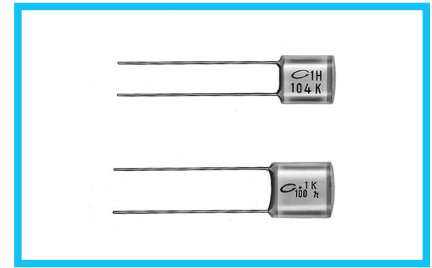
nichicon

**YX**

Foil Type Polyester Film Capacitor

series (Standard type)

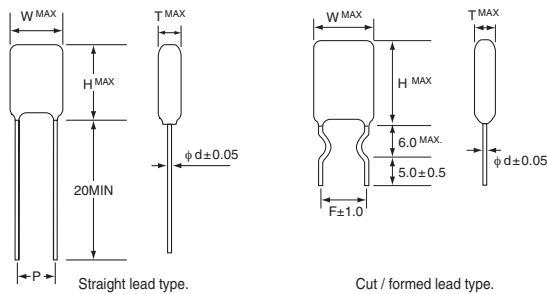
- Inductive construction, using a dielectric of polyester film together with aluminum foil.
- Coated with epoxy resin for superior heat resistance, humidity resistance and solvent resistance.
- Suited for use in commercial and industrial applications.
- Available for automatic insertion systems.
- Compliant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



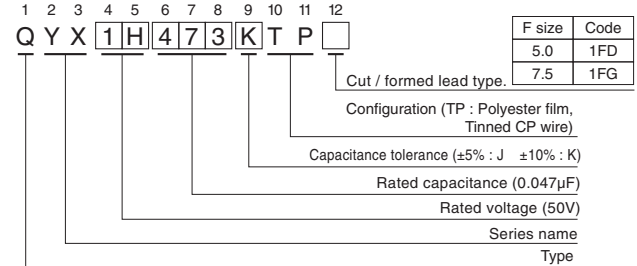
## Specifications

| 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.<br>Between Terminals and Coverage : Rated Voltage × 200%, 1 to 5 secs. |
| Encapsulation              | Epoxy resin                                                                                                                   |

## Drawing



Type numbering system (Example : 50V 0.047μF)



## Dimensions

Unit : mm

| V (Code)  |      | 50VDC (1H) |      |      |     |                                     |     | 100VDC (2A) |      |      |     |                                      |     |
|-----------|------|------------|------|------|-----|-------------------------------------|-----|-------------|------|------|-----|--------------------------------------|-----|
| Cap. (μF) | Code | T          | W    | H    | d   | P                                   | F   | 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 <sup>+1.0</sup> <sub>-1.2</sub>  | 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 <sup>+1.0</sup> <sub>-1.2</sub>  | 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 <sup>+1.0</sup> <sub>-1.2</sub>  | 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 <sup>+1.0</sup> <sub>-1.2</sub>  | 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 <sup>+1.0</sup> <sub>-1.2</sub>  | 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 <sup>+1.0</sup> <sub>-1.2</sub>  | 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 <sup>+1.0</sup> <sub>-1.2</sub>  | 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 <sup>+1.0</sup> <sub>-1.2</sub> | 7.5 |
| 0.22      | 224  | 7.0        | 11.0 | 13.5 | 0.5 | 7.5 <sup>+1.0</sup> <sub>-1.2</sub> | 7.5 | 7.0         | 14.0 | 15.5 | 0.5 | 10.0 <sup>+1.0</sup> <sub>-1.2</sub> | 7.5 |
| 0.33      | 334  | 8.0        | 12.5 | 16.0 | 0.6 | 7.5 <sup>+1.0</sup> <sub>-1.2</sub> | 7.5 | 8.0         | 14.5 | 18.5 | 0.6 | 10.0 <sup>+1.0</sup> <sub>-1.2</sub> | 7.5 |
| 0.47      | 474  | 9.5        | 14.0 | 16.5 | 0.6 | 7.5 <sup>+1.0</sup> <sub>-1.2</sub> | 7.5 | 9.5         | 16.5 | 18.5 | 0.6 | 10.0 <sup>+1.0</sup> <sub>-1.2</sub> | 7.5 |

F : lead pitch for cut / formed lead wires.

CAT.8100D