## Features

- High insulation resistance (more than 50kMΩ at less than 0.33μF).
- Low dissipation factor (less than 0.001 at 1kHz).
- High surge withstand voltage and high current withstand capability.



a type

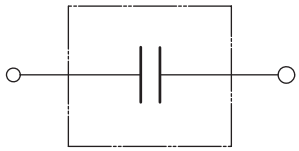


b type

## Applications

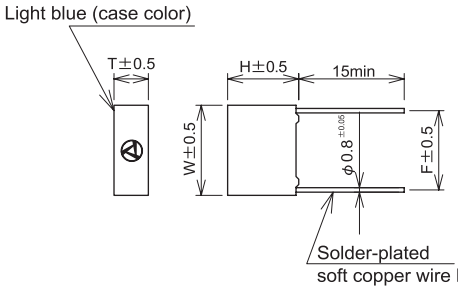
- High frequent circuit, Resonant circuit in high voltage, Snubber circuit, Protection of semiconductors, Ultra-high impedance circuit and Long time constant circuit.

*Circuit*

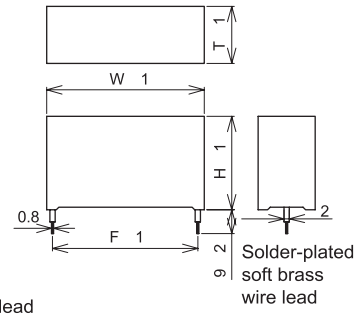


*Dimensions*

a type




b type




## Electrical Specifications

Operating Temperature: -40 ~ +85

| Capacitance W・V / Model# | μF | 2E (250WV) W | T | H | F | d | Type | 2G (400WV) W | T | H | F | d | Type | 2J (630WV) W | T | H | F | d | Type | 3B (1250WV) W | T | H | F | d | Type | 3C (1600WV) W | T | H | F | d | Type | Dissipation factor | Test voltage | Insulation resistance |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | 0.001 | | | | | | | | | | | | | | | | | | | | | | | | | 17.0 | 6.5 | 13.5 | 15.0 | | | | |
| 152 | 0.0015 | | | | | | | | | | | | | | | | | | | | | | | | | 17.0 | 6.5 | 13.5 | 15.0 | | | | |
| 222 | 0.0022 | | | | | | | | | | | | | | | | | | | | | | | | | 17.0 | 8.0 | 15.0 | 15.0 | | | | |
| 332 | 0.0033 | | | | | | | | | | | | | | | | | | | | | | | | | | 6.5 | 16.0 | | | | | |
| 472 | 0.0047 | | | | | | | | | | | | | | | | | | | 17.0 | 6.5 | 13.5 | 15.0 | | | | 6.5 | 16.0 | | | | | |
| 682 | 0.0068 | | | | | | | | | | | | | | | | | | | 17.0 | 8.0 | 15.0 | 15.0 | | | 25.0 | 8.0 | 17.5 | 22.5 | 0.8 | a | | |
| 103 | 0.01 | | | | | | | | | | | | | | | | | | | | 6.5 | 16.0 | | | | | 8.0 | 17.5 | | | | | |
| 153 | 0.015 | | | | | | | | | | | | | | | | | | | | 6.5 | 16.0 | | 0.8 | | | 10.0 | 19.5 | | | | | |
| 223 | 0.022 | | | | | | | | | | | | | 17.0 | 6.5 | 13.5 | 15.0 | | | 25.0 | 8.0 | 17.5 | 22.5 | | | 30.0 | 11.0 | 22.5 | 27.5 | | | | |
| 333 | 0.033 | | | | | | | | | | | | | | | | | | | | 10.0 | 19.5 | | | | 30.0 | 13.5 | 24.5 | 27.5 | | | | |
| 473 | 0.047 | | | | | | | 17.0 | 6.5 | 13.5 | 15.0 | | | | | | | | | | 10.0 | 19.5 | | | a | 30.0 | 13.5 | 24.5 | 27.5 | | | 0.001Max. (at 1000 100Hz) | Rated Voltage x 1.75 (2~5sec) | 50kMΩ Min. at 20 100VDC |
| 683 | 0.068 | | | | | | | 17.0 | 6.5 | 13.5 | 15.0 | | | | 8.0 | 15.0 | | 0.8 | | 30.0 | 11.0 | 22.0 | 27.5 | | | | | | | | | | | |
| 104 | 0.1 | 17.0 | 6.5 | 13.5 | 15.0 | | | 17.0 | 8.0 | 15.0 | 15.0 | | | 25.0 | 6.5 | 16.0 | 22.5 | | a | 30.0 | 13.5 | 24.5 | 27.5 | | | | | | | | | | | |
| 154 | 0.15 | 17.0 | 6.5 | 13.5 | 15.0 | | | 25.0 | 6.5 | 16.0 | 22.5 | 0.8 | | 25.0 | 8.0 | 17.5 | 22.5 | | | 30.5 | 16.0 | 28.0 | 27.5 | | | | | | | | | | | |
| 224 | 0.22 | 17.0 | 8.0 | 15.0 | 15.0 | | | 25.0 | 8.0 | 17.5 | 22.5 | | | 25.0 | 10.0 | 19.5 | 22.5 | | | 41.0 | 15.5 | 28.0 | 37.5 | 1.0 | | | | | | | | | | |
| 334 | 0.33 | 25.0 | 6.5 | 16.0 | 22.5 | 0.8 | | 25.0 | 10.0 | 19.5 | 22.5 | | a | 30.0 | 11.0 | 22.0 | 27.5 | | | 41.0 | 15.5 | 28.0 | 37.5 | | | | | | | | | | | |
| 474 | 0.47 | 25.0 | 8.0 | 17.5 | 22.5 | | | 30.0 | 11.0 | 22.0 | 27.5 | | | 30.0 | 11.0 | 22.0 | 27.5 | | | 41.0 | 17.5 | 32.5 | 37.5 | | | | | | | | | | | |
| 684 | 0.68 | 25.0 | 10.0 | 19.5 | 22.5 | | | 30.0 | 13.5 | 24.5 | 27.5 | | | 30.0 | 13.5 | 24.5 | 27.5 | | | 59.5 | 21.5 | 35.5 | 55.0 | - | b | | | | | | | | | 20kΩF Min. at 20 100VDC |
| 105 | 1.0 | 30.0 | 11.0 | 22.0 | 27.5 | | a | 30.0 | 13.5 | 24.5 | 27.5 | | | 30.5 | 16.0 | 28.0 | 27.5 | 1.0 | | 59.5 | 30.5 | 43.5 | 55.0 | - | b | | | | | | | | | |
| 155 | 1.5 | 30.0 | 13.5 | 24.5 | 27.5 | | | 41.0 | 15.5 | 28.0 | 37.5 | 1.0 | | 41.0 | 15.5 | 28.0 | 37.5 | 1.0 | | | | | | | | | | | | | | | | |
| 225 | 2.2 | 30.5 | 16.0 | 28.0 | 27.5 | | | 41.0 | 17.5 | 32.5 | 37.5 | 1.0 | | 49.5 | 20.5 | 33.0 | 45.0 | - | | | | | | | | | | | | | | | | |
| 335 | 3.3 | 41.0 | 15.5 | 28.0 | 37.5 | 1.0 | | 49.5 | 20.5 | 33.0 | 45.0 | - | | 59.5 | 21.5 | 35.5 | 55.0 | - | b | | | | | | | | | | | | | | | |
| 475 | 4.7 | 41.0 | 15.5 | 28.0 | 37.5 | | | 59.5 | 21.5 | 35.5 | 55.0 | - | b | 59.5 | 30.5 | 43.5 | 55.0 | - | | | | | | | | | | | | | | | | |
| 685 | 6.8 | 41.0 | 17.5 | 32.5 | 37.5 | | | 59.5 | 30.5 | 43.5 | 55.0 | - | | 59.5 | 30.5 | 43.5 | 55.0 | - | | | | | | | | | | | | | | | | |
| 106 | 10.0 | 59.5 | 21.5 | 35.5 | 55.0 | - | b | 59.5 | 30.5 | 43.5 | 55.0 | - | | | | | | | | | | | | | | | | | | | | | | |
| 156 | 15.0 | 59.5 | 30.5 | 43.5 | 55.0 | - | b | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 226 | 22.0 | 59.5 | 30.5 | 43.5 | 55.0 | - | b | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Model Numbering System

| C7NP | 2E | 104 | K |
|---|---|---|---|
| TYPE | 2E= 250WV<br>2G= 400WV<br>2J = 630WV<br>3B=1250WV<br>3C=1600WV | The first two digits stands for capacitance (pF). The third digit is for the number of continuing zero. | J =± 5%<br>K=±10% |