

5mm Ceramic Trimmer Capacitor

PC02 is small sized electronic apparatus, This series is designed for easy handling and is available with a variable adjustment method.

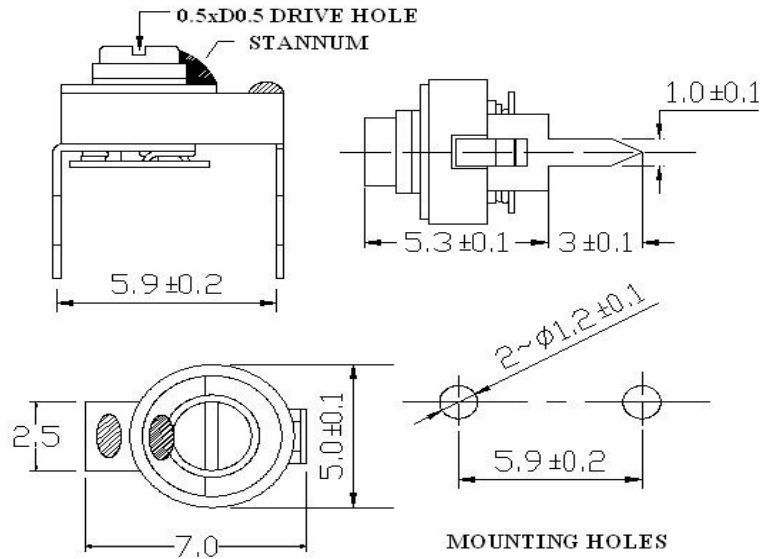
Features

- * Wide mount sizes and variable adjustments available
- * Lots of capacity ranges
- * Sturdy mechanical structure against vibration or shock

Specifications

- * Operation Temperature Range: -25°C to +85°C
- * Working Voltage: 100VDC
- * Withstanding Voltage: 220VDC
- * Insulation Resistance: 100,000 Mohm min
- * Rotation Torque: 35-200gf/cm
- * Soldering Temperature: 260°C +/-5°C

PRODUCT DIMENSION



| Part No. | Capacitance(pF) | | | Q (1MHz, Cmax) | Temp.Coeff ppm/°C | Remarks |
|----------|-----------------|------|---------------|-------------------|----------------------|---------|
| | Min | Max. | | | | |
| CVN 5020 | 1.3 max | 2 | + 50% - 0% | 300 min | NP 0±250 | |
| CVN 5030 | 1.5 max | 3 | + 50% - 0% | | | |
| CVN 5050 | 2.0 max | 5 | + 50% - 0% | | | |
| CVN 5100 | 3.0 max | 10 | + 50% - 0% | | | |
| CVN 5200 | 4.5 max | 20 | + 50% - 0% | 200 min | N 450±250 | |
| CVN 5300 | 5.5 max | 30 | + 50% - 0% | | | |
| CVN 5400 | 6.8 max | 40 | + 50% - 0% | | | |
| CVN 5500 | 9.8 max | 50 | + 50% - 0% | | | |
| CVN 5600 | 12.0 max | 60 | + 50% - 0% | | | |
| CVN 5700 | 14.0 max | 70 | + 50% - 0% | | | |

Applications

These specifications are applied to Ceramic Trimmer Capacitors with ceramic dielectric, which are used for the electric and electronic apparatus and communication equipments.

Test circumstance

Test should be done at 20°C with relative humidity at 65%. However, subjected to special requirement, the ideal range should be within $\pm 5^{\circ}\text{C}$ and humidity from 45°C to 85°C.

Electrical Characteristic

1 Capacitance

When measured at 20°C, 0.5V to 5V, and 1MHz, the minimum capacitance is smaller than the minimum nominal capacitance and the maximum capacitance is bigger than the maximum normal capacitance.

Please refer to the minimum and maximum capacitances listed at the attached specifications.

2 Temperature Characteristics

The ideal temperature coefficient of the capacitance shall be between $-25^{\circ}\text{C} + 85^{\circ}\text{C}$

3 Q (Quality factor)

When measured at 20°C, 0.5V to 5V, and 1MHz, the maximum capacitance, the Q values given at the attached specifications.

4 Insulation Resistance

When applied 100VDC between terminals for 1 minute at maximum capacitance, the insulation resistance shall be more than 10,000M Ω . (apply under max.cap 60pf).

5 Withstanding Voltage

Applied 220VDC (less than 5mA) for 5 seconds between terminals, no defect was found.

Structure and mechanical characteristics

1. Configuration and Dimensions

Please refer to the attached drawings.

2. Strength of Terminals

When applied a power to the terminals to any direction slowly and kept at 0.25 kg for 10 seconds, the terminals shall not be loosen or broken mechanically.

3. Torque

The torque test should be done at least for 1 round tuning from 35gf.cm to 200gf.cm for the normal type. Please note that it might cause the torque will decrease against the rotation increase.

4. Soldering Ability

When dipped the terminals into the soldering pot at $255^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 2 ± 0.5 seconds, There is almost 75% of the total dipped surface are covered with the new solder.