

7mm CERAMIC TRIMMER CAPACITORS

SPECIFICATIONS

1. Applications

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

2. Part number

The part number consists of category, dimension, temperature characteristics and maximum nominal capacitance :

$$\frac{\text{CVN}}{\text{(a)}} \quad \frac{7}{\text{(b)}} \quad \frac{121}{\text{(c)}} \quad \text{(121 is } 12 \times 10^1 = 120 \text{ PF)}$$

- (a) Category : Ceramic Trimmer capacitor
 (b) Outer size : Open Type : $\Phi 7\text{mm}$
 (c) Maximum nominal capacitance : PF unit in 3 digits (The 1st and 2nd figures indicate the significant figures, but the 3rd indicates the number of naught.)

3. Rated voltage : 100VDC

4. Temperature range : -25°C to $+85^{\circ}\text{C}$

5. 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

6. Electrical Characteristic

6.1 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 nominal capacitance. Please refer to the minimum and maximum capacitances listed in the attached specifications.

6.2 Temperature Characteristics

When measured the capacitance at 1MHz±10%, it reached the heat balance at each temperature changed to +20°C to -25°C with adjusting to 80%~90% of the maximum capacitance, the capacitance change is based on the capacitance at +20°C of 2nF stage of changing the temperature as above.

6.3 Q (Quality factor)

When measured at 20°C, 0.5V to 5V, 1MHz and maximum capacitance, the Q values are listed in the attached specification.

6.4 Insulation Resistance

When applied 100VDC between terminals for 1 minute at the maximum capacitance, the insulation resistance shall be more than 10,000MΩ.

6.5 Withstanding Voltage

There is no abnormality after applied 220VDC (less than 5mA) for 5 seconds between the terminals.

7. Structure and mechanical characteristics

7.1 Configuration and Dimensions

Please refer to the attached drawings.

7.2 Strength of Terminals

When applied a power to the terminals to any direction slowly and kept at 0.5 kg for 10 seconds, the terminals shall not be loosen or broken mechanically.

7.3 Torque

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

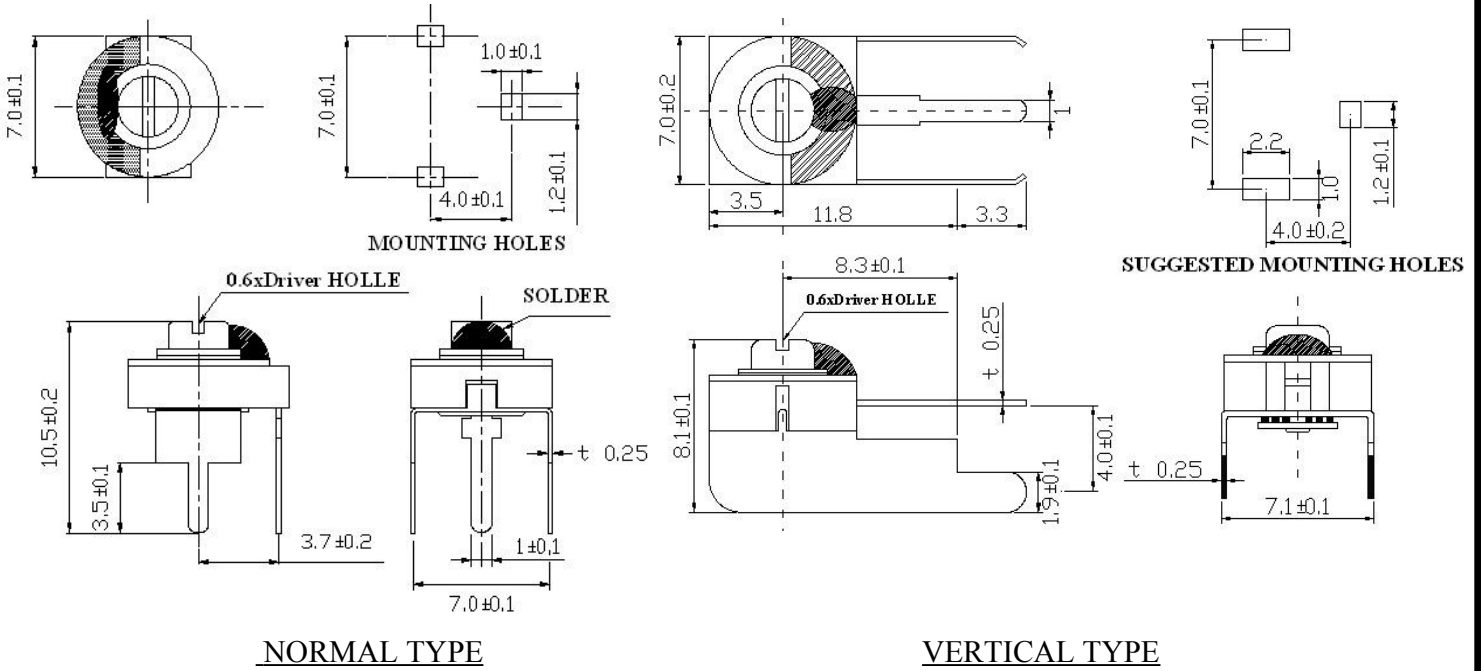
7.4 Solder ability

When dipped the terminals into the soldering pot at 255°C±5°C for 2±0.5 seconds. There is almost 75% of the total dipped surface are covered with the new solder.

8. Color Code

Color code is not applicable for this series.

7mm Ceramic Trimmer Capacitors



NORMAL TYPE

VERTICAL TYPE

Part No.	Capacitance(pF)		Q (1MHz, Cmax)	Temp.Coeff ppm/ °C	Remarks
	Min	Max.			
CVN 7100(V)	3.0 max	10	300 min	NP 0±250	
CVN 7200(V)	4.0 max	20			
CVN 7300(V)	5.0 max	30			
CVN 7500(V)	7.0 max	50	200 min	N 1000±500	
CVN 7700(V)	9.0 max	70			
CVN 7900(V)	10.0 max	90			
CVN 7101(V)	12.0 max	100			
CVN 7121(V)	14.0 max	120			
			N 2200±800		