



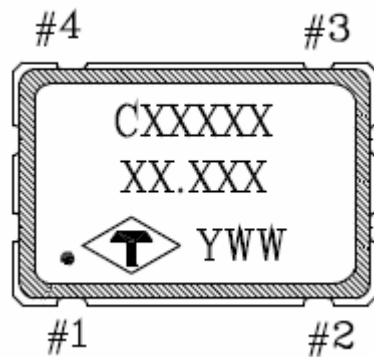
# Application Notes: Side Pads on Crystal Oscillators

# What are Side Pads?

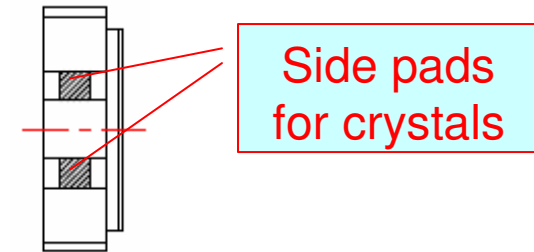
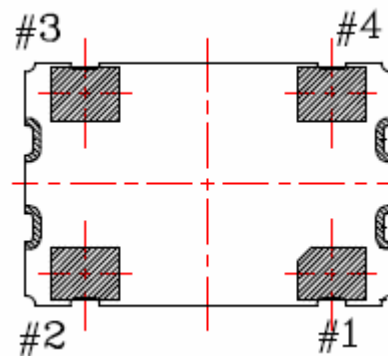
- Side pads are metal pads on the side of crystal oscillator packages. Pads are generally on the short side of the package.
  - There are also metal pads extending from the soldering pads on the bottom of the package. These pads are not considered side pads in this context.
- Side pads make electrical connections to the crystal blanks inside.
- Side pads are used to measure electrical characteristics of crystal blanks after assembly in order to further assure quality of the blanks before shipment

# Where are Side Pads ?

TOP VIEW



BOTTOM VIEW

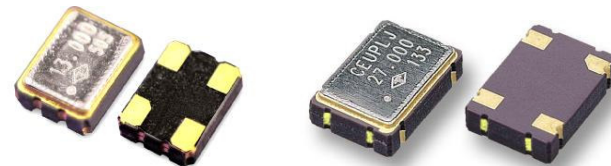


SIDE VIEW

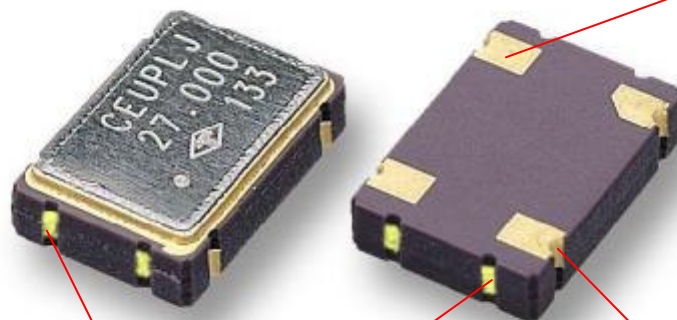
Pads extending from the soldering pads

# TAITIEN's Crystal Oscillator Products with Side Pads

- OC Series (7.0 x 5.0 mm)
- OV Series (5.0 x 3.2 mm)
- OX/PX Series (3.2 x 2.5 mm)
- OY/PX Series (3.2 x 2.5 mm)



# OC Series (7.0 mm x 5.0 mm)

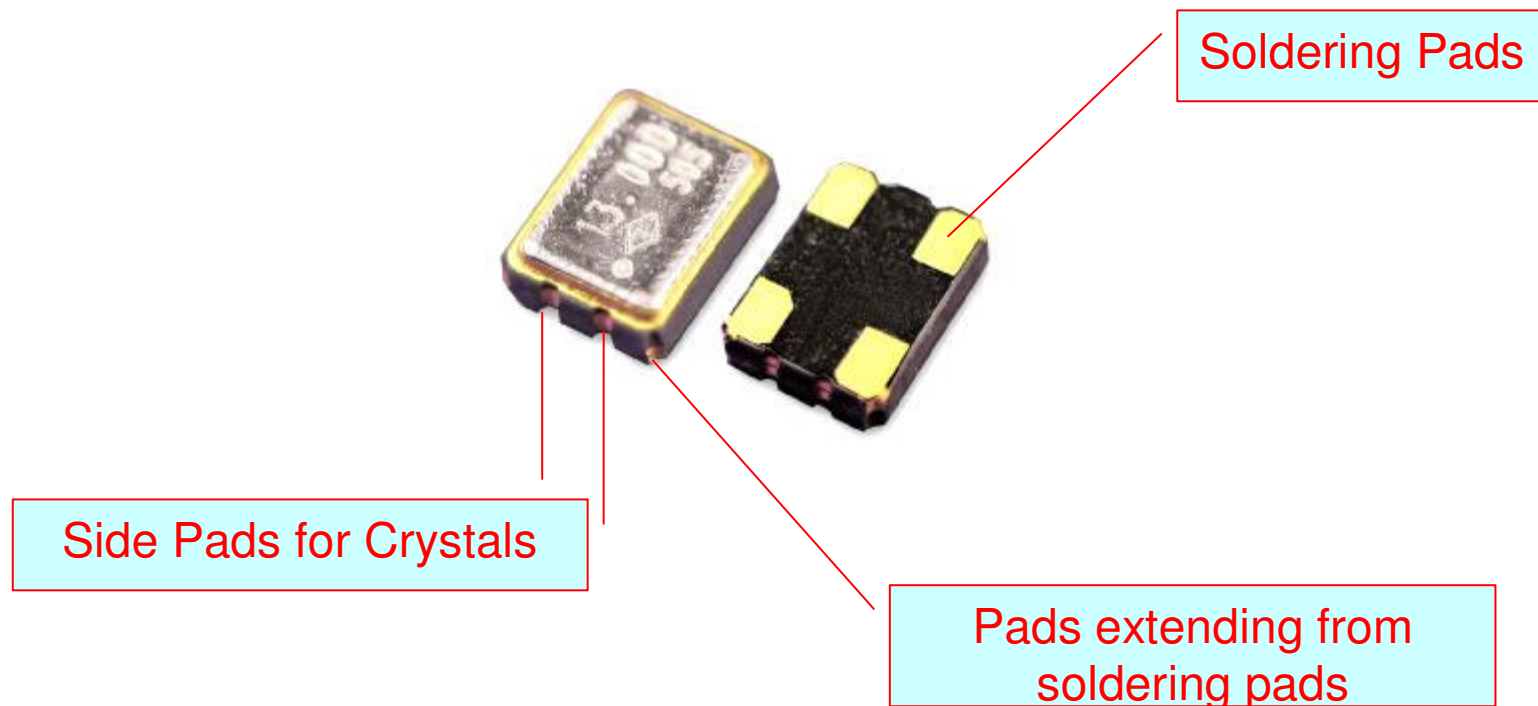


Soldering Pad

Side Pads for Crystals

Pads extending from soldering pads

# OX/PX Series (3.2mm x 2.5mm)



# Application Consideration

- When soldering the crystal oscillators onto boards, make sure the side pads are not shorted or in contact to soldering pads.
- If the side pads come to contact with the soldering pads such as GND or Vdd, it would cause the units to not oscillate or generate unstable output.