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**
  - #1
  - #2
  - CXXXXX
  - XX.XX
  - YWW

- **BOTTOM VIEW**
  - #1
  - #2
  - #3
  - #4

- **SIDE VIEW**

Side pads for crystals

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)

- Soldering Pads
- Side Pads for Crystals
- Pads extending from soldering pads
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.