

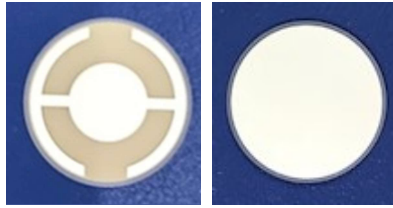
# Monitor Crystals

## Product

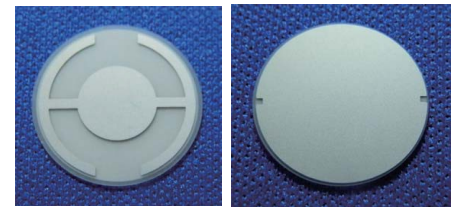
### GOLD



### SILVER



### ALLOY



Frequency	5MHz	6MHz
Parts No.	5M-1240-04	6M-1400-08
Cutting Orientation	At cut	At cut
Diameter	Φ12.4	φ14

Frequency	5MHz	6MHz
Parts No.	5M-1240-13	6M-1400-11
Cutting Orientation	At cut	At cut
Diameter	Φ12.4	φ14

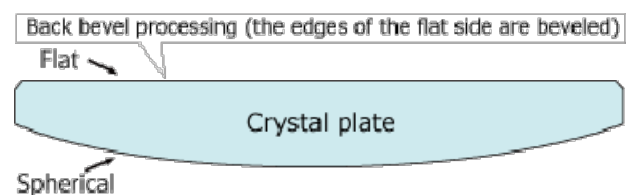
Frequency	5MHz	6MHz
Parts No.	5M-1240-AL	6M-1400-AL
Cutting Orientation	At cut	At cut
Diameter	Φ12.4	φ14

## 《Features》

1. Shalom products is stable frequencies of crystal oscillations, mass changes in coating to be accurately detected.
2. As Shalom products is AT-cut crystal oscillators, it is extremely stable against temperature.
3. Shalom could produce the specifications according to your requests (custom specifications).
4. Shalom products could provide low cost, high reliability, and more stability for you.

### ■Crystal plate configuration

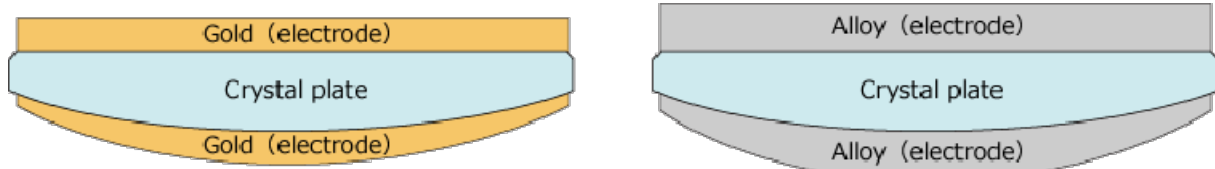
In order to keep the second spurious oscillation separate from the main oscillation, the crystal plate undergoes plano-convex processing, with one side flat and the another spherical. As well, it has back bevel processing to suppress contour oscillation (unnecessary oscillation). (Figure at right: Characteristics of plano-convex processing “Figure of a crystal plate seen from side on”)



### ■Volume (thickness) of electrode material

Currently, Shalom is producing monitor crystals with three varieties of electrode material: gold, silver (chrome based layer), and alloy. Each has a different volume (thickness) of electrode material. Please refer to the figure below. Monitor crystals with alloy electrodes is thicker electrode than gold electrodes. Because the electrode material is thick and soft, it acts as a cushion even after coating material has been deposited, and provides longer life without obstructing the crystal's oscillation (thickness slip oscillation).

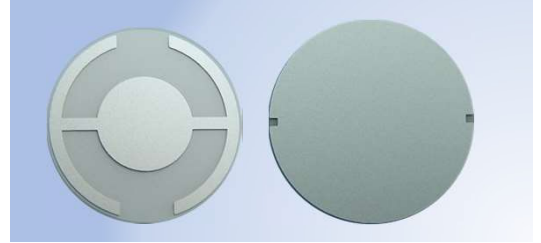
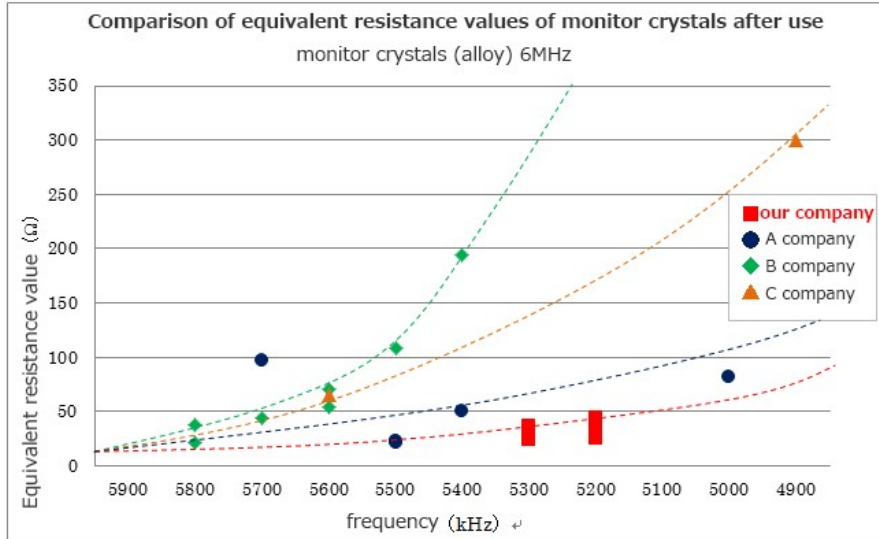
Figure: Crystal plate with deposited electrode material seen from side on



# Monitor Crystals

## ■ Comparison of equivalent resistance values of monitor crystals after use

We measured the equivalent resistance values of monitor crystals (alloy) after use and compared the measured values of our own products and those of other companies. Shalom monitors (alloy) have more stable equivalent resistance values even after use, with little scattering.



## Package

Our Package protect products from vibrations and shocks during transportation and deliver them to customers.

Plastic case of at max. 40 packing



It's possible to take in and out by a finger and tweezers. This is recommended case to handle.

Plastic and urethane case of at max. 40 packing



A packaging case that protects the entire product with urethane

Plastic and urethane case of at max. 10 packing



A packing case of the type to pile up a product by slip-sheet.