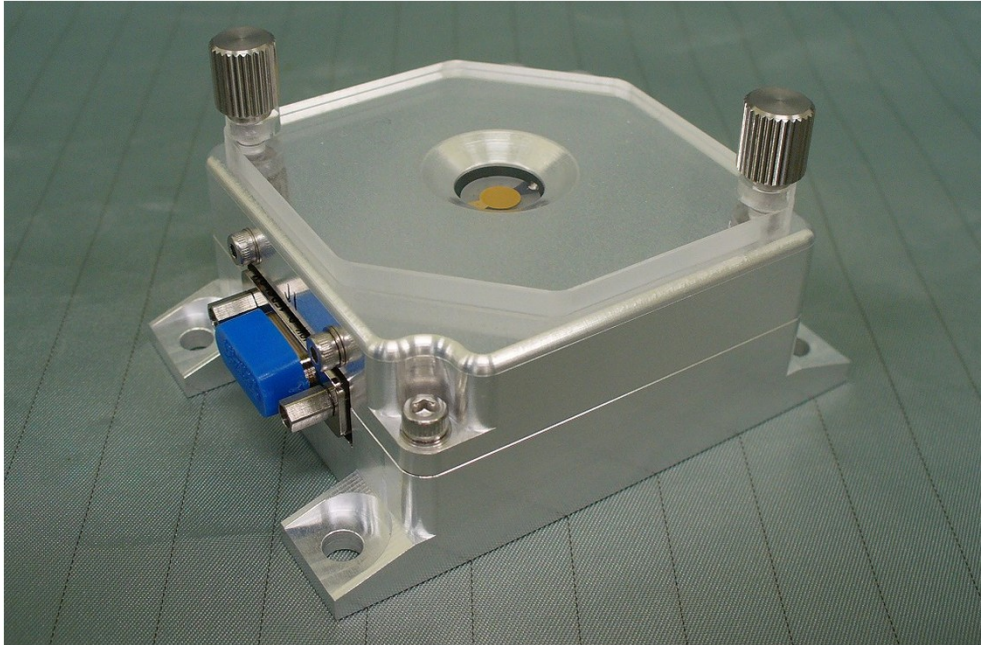


# Quartz Crystal Microbalance for Spacecraft



\* The covers for upper part and connector are removed when used.

## Outline

Quartz Crystal Microbalance (QCM) is a unit for monitoring contamination status around satellites by utilizing the characteristics of oscillating frequencies variation depending on the amount of substances attached over the crystal surface.

## Heritage

**ISS Exposed Facility**

**JAXA Small Demonstration Satellite (SDS-4)**

## Features

- Compact and lightweight
- Vibration and impact proof against the rocket launch
- Highly accurate measurement with pairs of quartz crystals for monitoring and referencing in order to cancel out the temperature-induced fluctuations of the oscillating frequencies from the quartz crystal

\* This product was developed in support of JAXA (Japan Aerospace Exploration Agency).

\* Note that, with due to the rights of other relevant parties and/or depending on usage, application and/or delivery place, the product may not be sold, commercially distributed, leased or included in a part of product or system which intends to receive benefits through the inclusion of the product.

