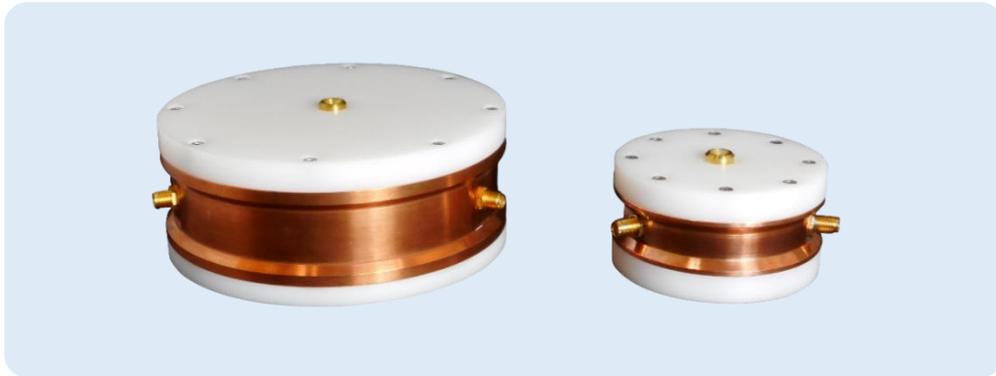


Cavity resonator for permittivity measurement

Industry-proven low loss dielectric test solution

- Ideal for evaluating low loss dielectric materials with $\tan \delta$ 0.01 or less.
- Easy operation: simply inserting a rod-shaped sample into the insertion hole
- Efficient and reliable measurement with permittivity measurement software
- Robust hardware provides reproducible measurements over the years



The cavity resonator is a highly reliable solution that has been used extensively by many companies and research institutions for over a quarter of a century since our company began selling for the first time in Japan. With the extremely high Q value (over 10,000, typical) of the resonator itself, it is possible to accurately evaluate low loss materials with $\tan \delta$ of 0.01 or less.

Furthermore, since the measurement procedure is simple, you can efficiently measure materials with high repeatability. You can simply insert the rod-shaped sample into the sample insertion hole in the upper part of the resonator, and just click "measure". The measurement software guides you through the measurement with step-by-step explanation, with which you can obtain the correct measurement result from the beginning.

System Configuration Example

- Keysight Streamline Series USB Network Analyzer P9373A (14 GHz)
- Permittivity measurement software for cavity resonators CP-MA
- Cavity resonator starter kit CP-ST
- Cavity Resonator 1 GHz CP-001
- Windows PC

Product Line-up

| Model | Description | Res Mode | Q factor | Sample Hole | Connectors |
|--------|---------------------------|----------|----------|---------------|-------------|
| CP-001 | Cavity Resonator 1 GHz | TM010 | >10,000 | ϕ 2.6 mm | 2.92 mm (f) |
| CP-002 | Cavity Resonator 2 GHz | | | | |
| CP-245 | Cavity Resonator 2.45 GHz | TM020 | >7,000 | | |
| CP-003 | Cavity Resonator 3 GHz | | | | |
| CP-005 | Cavity Resonator 5 GHz | | | | |
| CP-580 | Cavity Resonator 5.8 GHz | | | | |
| CP-010 | Cavity Resonator 10 GHz | | | | |