

A set of measuring microwave resonators

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Abstract

An universal set of broadband high-Q measuring resonators operating in a frequency band of 0.6–180 GHz is described. The resonators may be used for physical investigations, measuring parameters of different media, and in spectroscopy, holography, radio-astronomy, communication engineering, and physical electronics. The microwave resonators with a mechanical frequency tuning range of 1/2 octave and higher and a loaded Q-factor of no less than 10^5 are created, and there is a possibility of electronic frequency adjustments in them.

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- **Semiconductor Diode**
- **Voltage Standing Wave Ratio**
- **Wide Tuning Range**