

Measurement of Complex Permittivity of Solids Up to 1000°C

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A technique suitable for measuring the permittivity of solids up to 1000°C in X-band is introduced. Although techniques for permittivity measurements are well known, there exist a lot of technological problems such as calibration and choosing the right material for carrying out measurements at high temperatures. We present a method to determine the complex permittivity over the whole temperature range from room to high temperatures using only one calibration and measurement cycle.

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