

High Power Microwave Impedance Measurements System Suitable for In-Situ Thermo-Dielectric Material Characterisation

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A novel family of six-port reflectometers, designed in hybrid stripline-waveguide technology, is proposed for high power applications. In principle, there is no limitation in the input power level and the design can be adapted for any waveguide frequency band. A prototype was designed for the operational frequency of 2.45 GHz and measurements were made at power level up to 200 w.

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