

Abstracts

A Semiautomated Six Port for Measuring Millimeter-Wave Power and Complex Reflection Coefficient

M.P. Weidman. "A Semiautomated Six Port for Measuring Millimeter-Wave Power and Complex Reflection Coefficient." 1977 Transactions on Microwave Theory and Techniques 25.12 (Dec. 1977 [T-MTT] (1977 Symposium Issue)): 1083-1085.

A six-port system has been developed and applied to the precision measurement of power and complex reflection coefficient in WR-15 (50-75 GHz) waveguide. The system is automated except for frequency and switching control for the signal source. This system provides a timesaving factor of at least five as compared to a tuned reflectometer with little, if any, degradation in accuracy.

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