

Abstracts

A Millimeter-Wave Six-Port Reflectometer Using Dielectric Waveguide

G. Hji pieris, R.J. Collier and E.J. Griffin. "A Millimeter-Wave Six-Port Reflectometer Using Dielectric Waveguide." 1990 Transactions on Microwave Theory and Techniques 38.1 (Jan. 1990 [T-MTT]): 54-61.

A novel six-port reflectometer circuit is described which is particularly suited to dielectric-type waveguides. Its scattering matrix is derived allowing for flexibility in design. A phase shifting network is incorporated in the circuit and it is shown that a quadrature hybrid can be configured for this purpose. The reflectometer is implemented in dielectric waveguide for W-band (75 GHz-110 GHz) operation and measurements are presented.

 [Return to main document.](#)