

Abstracts

Millimeter-Wave Passive Components and Six-Port Network Analyzer in Dielectric Waveguide

J.A. Paul and P.C.H. Yen. "Millimeter-Wave Passive Components and Six-Port Network Analyzer in Dielectric Waveguide." 1981 Transactions on Microwave Theory and Techniques 29.9 (Sep. 1981 [T-MTT] (Special Issue on Open Guided Wave Structures)): 948-953.

A cost effective scheme of fabricating millimeter-wave passive components in dielectric waveguide has been conceived and a computer program has been written for analyzing their frequency responses. By inlaying Teflon guides in the properly designed contours cut in a low dielectric constant foam material, passive components such as quadrature hybrids, in-phase power dividers, and six-port network analyzers have been developed. Design and performance data are presented.

 [Return to main document.](#)