Abstracts

The Design of Millimeter-Wave Control Components

J. Adelman, R. Ben-Michael, S. Caspi and S. Hopfer. "The Design of Millimeter-Wave Control Components." 1989 Transactions on Microwave Theory and Techniques 37.2 (Feb. 1989 [T-MTT] (Special Issue on Quasi-Planar Millimeter-Wave Components and Subsystems)): 317-323.

The design of broad-band high-performance control components covering the 18-40 GHz frequency range utilizing microstrip technology is described. Design considerations and experimental results are presented for high-speed single-pole, single-throw and single-pole, double-throw switches with 80 and 60 dB isolation, respectively. Design equations and experimental results are presented for a 3 dB quadrature microstrip reentrant coupler and for a nonreflective voltage-controlled attenuator with a dynamic range of 50 dB.

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