

Abstracts

New Millimeter-Wave Fin-Line Attenuators and Switches

H. Meinel and B. Rembold. "New Millimeter-Wave Fin-Line Attenuators and Switches." 1979 MTT-S International Microwave Symposium Digest 79.1 (1979 [MWSYM]): 249-252.

New diode-controlled mm-wave attenuators and switches using fin-line technique are presented. Design considerations and measurements show, that ultra broadband devices (18-40 GHz; attenuation adjustable from 1.5 to 25 dB) as well as narrow band circuits at higher frequencies (91-93 GHz; attenuations adjustable from 2.9 to 20 dB) can be realized using PIN-diodes. For high speed switching in the subnanosecond range Schottky-Barrier-diodes can be taken (31-33 GHz; attenuation switchable from 2.5 to 25 dB).

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