Abstracts

A New High-Power Variable Attenuator (Correspondence)

L.R. Whicker and G.J. Neumann. "A New High-Power Variable Attenuator (Correspondence)." 1963 Transactions on Microwave Theory and Techniques 11.5 (Sep. 1963 [T-MTT]): 450-451.

This communication describes a design for a variable attenuator which can operate at very high peak and average power levels propagating in any chosen mode in a single or a multimode waveguide. This attenuator offers the desirable characteristics of dissipating energy in external loads rather than within the internal structure and utilizes only one coupling mechanism. The device consists of a coupled wave structure between two modes in adjacent primary and secondary waveguides, and a suitable mechanism for varying the phase constant of the secondary waveguide.

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