

Abstracts

Broadband Phase Invariant Attenuator

D. Adler and P. Maritato. "Broadband Phase Invariant Attenuator." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 673-676.

A 6-18 GHz variable attenuator has been realized, with less than 5° phase error over 32 dB attenuation range. The approach utilizes the bi-phase nature of a reflection from a resistive load. Using quadrature couplers, it is shown that the first order errors are reduced to fourth order terms, resulting in significant phase error improvement.

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