

Abstracts

A wide-band low-distortion ferrimagnetic attenuator

C. Trask. "A wide-band low-distortion ferrimagnetic attenuator." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1847-1850.

An electronically-controlled attenuator is presented which incorporates readily-available ferrite materials. A primary goal of the design is to attain a high level of intermodulation (IP/sub 3/) performance while at the same time keeping circuit complexity and cost at a minimum. A secondary goal is to reduce, if not eliminate, the temperature dependence normally associated with variable-gain stages. Test results show that these goals are easily achieved.

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