

A Practical Microwave Travelling-Wave MESFET Gate Mixer

O.S.A. Tang and C.S. Aitchison. "A Practical Microwave Travelling-Wave MESFET Gate Mixer." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 605-608.

The theoretical analysis of Travelling-Wave (Distributed) Mixing is briefly described. Experimental verification on a 2-section design, comparing theoretical and measured results is presented for the first time. The tradeoffs between circuit variables are briefly explained. It exhibits around 4dB of conversion loss over the signal frequency band from below 2GHz to 10GHz for an I.F. of GHz.

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