Abstracts

MMIC Compatible Lightwave-Microwave Mixing Techniques (1992 Vol. II [MWSYM])

S. Malone, A. Paolella, P.R. Herczfeld and T. Berceli. "MMIC Compatible Lightwave-Microwave Mixing Techniques (1992 Vol. II [MWSYM])." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 757-760.

The work presented in this paper concerns the mixing of a microwave signal with a modulated optical signal in a MESFET. A brief theoretical analysis of the IF term of the drain current is given in terms of the input signal parameters and device characteristics. Experimental results for two mixing configurations using the MESFET are shown, along with biasing conditions which maximize the IF response.

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