Abstracts

A PMHFET Based MMIC Gate Mixer for Ka-Band Applications (1995 Vol. I [MWSYM])

M. Matthes, J.-M. Dieudonne, W. Stiebler and L. Klapproth. "A PMHFET Based MMIC Gate Mixer for Ka-Band Applications (1995 Vol. I [MWSYM])." 1995 MTT-S International Microwave Symposium Digest 95.1 (1995 Vol. I [MWSYM]): 123-126.

A multipurpose MMIC gate mixer has been designed, fabricated and measured. The mixer exhibits a maximum conversion gain of about 0 dB in the frequency range of 32 GHz -- 38 GHz with an intermediate frequency (IF) of 100 MHz and an IF load of 50 Q. With an external IF matching network a conversion gain up to 5 dB can be achieved. The mixer which consists of one pseudomorphic HFET represents state of the art performance.

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