

Abstracts

Integrated Parametric Amplifiers with IMPATT-Diode Pumping

P. Bura, W. Y. Pan and S. Yuan. "Integrated Parametric Amplifiers with IMPATT-Diode Pumping." 1969 G-MTT International Microwave Symposium Digest of Technical Papers 69.1 (1969 [MWSYM]): 426-431.

Hybrid integrated parametric amplifiers (paramps) have been developed for different S-Band frequencies. The amplifier circuits were etched on a 1 in. x 1 in. copper-on-alumina substrate. Voltage gain-bandwidth products of 800 MHz and noise figures as low as 1.2 dB were measured. An IMPATT-Diode oscillator was used as the pump source. The paramp noise problem due to the IMPATT oscillator was determined and remedied.

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