Abstracts

Monolithic Ultra-Broadband Transimpedance Amplifiers Using AiGaAs/GaAs HBTs (1991 Vol. I [MWSYM])

N. Nagano, T. Suzaki, A. Okamoto and K. Honjo. "Monolithic Ultra-Broadband Transimpedance Amplifiers Using AiGaAs/GaAs HBTs (1991 Vol. I [MWSYM])." 1991 MTT-S International Microwave Symposium Digest 91.1 (1991 Vol. I [MWSYM]): 255-258.

Monolithic ultra-broadband transimpedance amplifiers have been developed using AIGaAs/GaAs HBTs. The amplifiers have exhibited DC to 13.4-GHz bandwidth, with an 18.1-dB gain, and a 49.8-dB Omega transimpedance. These results have been brought about by optimized circuit design considering large signal operation and an affordable HBT fabrication process using a self-aligned method.

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