Abstracts

A Novel 4-18 GHz Monolithic Matrix Distributed Amplifier (1989 Vol. I [MWSYM])

S.L.G. Chu, Y. Tajima, J.B. Cole, A. Platzker and M.J. Schindler. "A Novel 4-18 GHz Monolithic Matrix Distributed Amplifier (1989 Vol. I [MWSYM])." 1989 MTT-S International Microwave Symposium Digest 89.1 (1989 Vol. I [MWSYM]): 291-295.

This paper describes the design, fabrication, and performance of a 4 to 18 GHz matrix distributed amplifier. This amplifier incorporates a novel biasing scheme which enables the stages to be connected in cascade at RF frequencies and in cascode for dc biasing, thus conserving current. This is the first MMIC amplifier of its kind. The amplifier has shown greater than 13 dB gain across the frequency band.

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