# Abstracts

## Monolithic 2-18 GHz Matrix Amplifiers (Short Papers)

*A.P. Chang, K.B. Niclas, B.D. Cantos and W.A. Strifler. "Monolithic 2-18 GHz Matrix Amplifiers (Short Papers)." 1989 Transactions on Microwave Theory and Techniques 37.12 (Dec. 1989 [T-MTT] (1989 Symposium Issue)): 2159-2162.*

The designs and performances of two different monolithic 2-18 GHz matrix amplifiers are discussed. The first module, optimized for gain and return loss, yields gains of G = 15.5±0.9 dB and a maximum return loss of RL = -12.0 dB. When cascading these modules to form a two- or three-stage amplifier, gains of G = 31.4±1.4 dB and G = 43.2±1.8 dB are measured. With the second unit, designed for low noise and gain, noise figures of NF = 4.15±0.85 dB and gains of G = 17.1±1.25 dB were achieved.

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