

Abstracts

A Millimeter-Wave Monolithic Matrix Distributed Amplifier

K.M. Simon, S.L.G. Chu, R. Wolhert, M.J. Schindler and J.B. Cole. "A Millimeter-Wave Monolithic Matrix Distributed Amplifier." 1992 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 92.1 (1992 [MCS]): 73-75.

A millimeter-wave monolithic two-stage matrix distributed amplifier with greater than 11 dB gain from 16-38 GHz has been demonstrated. This is the first reported two-stage millimeter-wave matrix distributed amplifier. The matrix amplifier topology yields a compact circuit with higher gain per unit area than a conventional distributed amplifier.

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