

Abstracts

2--20-GHz GaAs Traveling-Wave Amplifier

Y. Ayasli, L.D. Reynolds, Jr., J.L. Vorhaus and L.K. Hanes. "2--20-GHz GaAs Traveling-Wave Amplifier." 1984 Transactions on Microwave Theory and Techniques 32.1 (Jan. 1984 [T-MTT]): 71-77.

Single-stage and two-stage GaAs traveling-wave amplifiers operating with flat gain responses in the 2-20-GHz frequency range are described. The circuits are realized in monolithic form on a 0.1-mm GaAs substrate with 50- Ω input and output lines. Complete gate and drain dc bias circuitry is included on the chip. By cascading these amplifier chips, a 30-dB gain in the 2-20-GHz range is demonstrated, with 9 ± 1 -dB noise figure.

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