

Abstracts

5 W Monolithic HBT Amplifier for Broadband X-Band Applications

B. Bayraktaroglu, M.A. Khatibzadeh and R.D. Hudgens. "5 W Monolithic HBT Amplifier for Broadband X-Band Applications." 1990 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 90.1 (1990 [MCS]): 43-46.

We report the first monolithic HBT amplifier producing greater than 5 W output power at X-band frequencies. A single-stage, totally monolithic amplifier was fabricated using 2.4 mm emitter length AlGaAs/GaAs HBT for operation in the 7 - 10 GHz frequency range. A maximum of 5.3 W cw output power was obtained in this frequency range with 4.6 dB gain and 22% power-added efficiency.

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