

Abstracts

X, Ku-Band GaAs Monolithic Amplifier

Y. Tajima, T. Tsukii, E. Tong, R. Mozzi, L. Hanes and B. Wrona. "X, Ku-Band GaAs Monolithic Amplifier." 1982 MTT-S International Microwave Symposium Digest 82. 1 (1982 [MWSYM]): 476-478.

A two-stage X-, Ku-band monolithic FET amplifier has been developed. Initial results indicate a gain of 7-10 dB across the 8-20 GHz band with a typical rf power output of 100 mW. A balanced amplifier consisting of two two-stage amplifiers and a pair of Lange couplers yielded 10.5 ± 1 dB gain from 7.5 to 18 GHz and an output power of 150-250 mW in Ku-band.

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