

Abstracts

A Ka-Band GaInP/GaAs HBT Four-Stage LNA (1996 [MCS])

A.P. Freundorfer, Y. Jamani and C. Falt. "A Ka-Band GaInP/GaAs HBT Four-Stage LNA (1996 [MCS])." 1996 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 98. (1996 [MCS]): 141-144.

A Ka-band GaInP/GaAs HBT four-stage LNA has been designed and fabricated. This circuit is to be used in a multifunction T/R module for local multipoint distribution systems (LMDS) which include both analog and digital transmission. An average noise figure of 6 dB from 27 GHz to 30 GHz, and a gain of greater than 15 dB were measured. These results are the best reported at Ka-band for a LNA using transistors from digital HBT library.

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