

# Abstracts

## A Ka-Band GaInP/GaAs HBT Four-Stage LNA

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*A.P. Freundorfer, Y. Jamani and C. Falt. "A Ka-Band GaInP/GaAs HBT Four-Stage LNA." 1996 MTT-S International Microwave Symposium Digest 96.1 (1996 Vol. 1 [MWSYM]): 17-20.*

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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