

# Abstracts

## 30 GHz GaAs monolithic low noise amplifier-antennas

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*L. Roy. "30 GHz GaAs monolithic low noise amplifier-antennas." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 967-970.*

This paper describes the design and performance of 30 GHz low noise amplifiers (LNAs) integrated with slot antennas on GaAs monolithic microwave integrated circuits (MMICs). Various designs are compared, showing the tradeoffs between achievable noise figure, gain and overall chip size. The smallest chip size, measuring 8.6 mm<sup>2</sup>, would provide a 2.1 dB noise figure with 9.5 dB associated gain.

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