

Abstracts

30 GHz GaAs monolithic low noise amplifier-antennas

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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/, would provide a 2.1 dB noise figure with 9.5 dB associated gain.

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