

Abstracts

A Monolithic Variable Gain Ku-Band LNA

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A monolithic four-stage low noise amplifier (LNA) has demonstrated over 25 dB gain with gain control exceeding 30 dB and less than 3.5 dB noise figure from 14 GHz to 17 GHz. Single-gate FETs (SGFETs) provide minimum noise figure in the two input stages while dual-gate FETs (DGFETs) in the output stages contribute enhanced gain with gain control. Gain control is achieved without degradation in either input or output VSWR.

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