Abstracts

Ultra low power GaAs MMIC low noise amplifier for smart antenna combining at 5.2 GHz

F. Ellinger, U. Lott and W. Bachtold. "Ultra low power GaAs MMIC low noise amplifier for smart antenna combining at 5.2 GHz." 2000 Radio Frequency Integrated Circuits (RFIC) Symposium 00. (2000 [RFIC]): 157-159.

A switchable GaAs MMIC cascode low noise amplifier for smart antenna combining at 5.2 GHz (HIPERLAN) is presented using a standard 0.6 /spl mu/m MESFET process. A gain of 12.3 dB and a noise figure of 2.4 dB are measured, drawing only 1.2 mA from a 1 V supply. A gain/P/sub dc/ figure of merit of 10 dB/mW is achieved, which to our knowledge is the highest ever reported at C-band.

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