Abstracts

A high-performance 85-119 GHz GCPW MMIC low noise amplifier

V. Radisic, C. Pobanz, Ming Hu, M. Micovic, M. Wetzel, P. Janke, M. Yu, C. Ngo, D. Dawson and M. Matloubian. "A high-performance 85-119 GHz GCPW MMIC low noise amplifier." 2000 Radio Frequency Integrated Circuits (RFIC) Symposium 00. (2000 [RFIC]): 43-46.

In this paper, a high-performance four-stage MMIC low noise amplifier based on InP HEMT and grounded CPW (GCPW) technology is presented. The LNA exhibits a measured gain of 20/spl plusmn/3 dB from 85 to 119 GHz, a 33% bandwidth. The noise figure is 3.7 dB at 93 GHz. The measured amplifier P/sub 1 dB/ is 10 mW at 98 GHz.

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