

Abstracts

A 183 GHz low noise amplifier module for the conical-scanning microwave imager sounder (CMIS) program

R. Raja, M. Nishimoto, M. Barsky, M. Sholley, B. Osgood, R. Quon, G. Barber, P. Liu, P. Chin and R. Lai. "A 183 GHz low noise amplifier module for the conical-scanning microwave imager sounder (CMIS) program." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 987-990.

The design and fabrication of a 183 GHz MMIC LNA module is presented. The module has gain >20 dB and noise figure <8.3 dB waveguide flange to waveguide flange. This demonstrates that MMIC technology has advanced to the point that they can be considered as legitimate front ends for heterodyne receivers. This paper discusses the development of the module.

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