Abstracts

A 183 GHz low noise amplifier module with 5.5 dB noise figure for the conical-scanning microwave imager sounder (CMIS) program

R. Raja, M. Nishimoto, B. Osgood, M. Barsky, M. Sholley, R. Quon, G. Barber, P. Liu, R. Lai, F. Hinte, G. Haviland and B. Vacek. "A 183 GHz low noise amplifier module with 5.5 dB noise figure for the conical-scanning microwave imager sounder (CMIS) program." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 1955-1958 vol.3.

We present the development of a low noise amplifier (LNA) module which demonstrates gain >24 dB and noise figure (NF)<5.5 dB at 183 GHz. Our previous results reported NF<8.3 dB [1], This improvement was achieved by inserting a single-ended microwave monolithic integrated circuit (MMIC) LNA utilizing TRW's 0.08 /spl mu/m gate InP MMIC technology. This paper discusses the development of the new MMIC LNA, reviews the previous results and presents the new data that was obtained,.

❑ Return to main document.