

Abstracts

Ultra Small Sized Low Noise Block Downconverter Module (1992 [MCS])

T. Sekiguchi, N. Shiga, S. Nakajima, K. Otobe, N. Kuwata, K.-I. Matsuzaki and H. Hayashi.

"Ultra Small Sized Low Noise Block Downconverter Module (1992 [MCS])." 1992 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 92.1 (1992 [MCS]): 155-158.

A compact low noise block (LNB) downconverter module for use in direct broadcast satellite (DBS) utilizing only GaAs MMICs has been successfully demonstrated. Four kinds of MMICs designed with $0.5\mu\text{m}$ -gate pulse-doped MESFETs were assembled in a miniaturized flat package ($24.5\text{X}17.8\text{X} 6.0\text{mm}^3$). 52dB conversion gain and 2.1dB noise figure were obtained using no discrete HEMTs in the preceding stage and no stub-tuning.

[Return to main document.](#)