

# Abstracts

## Ultra Small Sized Low Noise Block Downconverter Module (1992 Vol. I [MWSYM])

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*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 Vol. I [MWSYM])." 1992 MTT-S International Microwave Symposium Digest 92.1 (1992 Vol. I [MWSYM]): 447-450.*

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 (24.5x17.8X 6.0mm<sup>3</sup>). 52dB conversion gain and 2.1dB noise figure were obtained using no discrete HEMTs in the preceding stage and no stub-tuning.

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