

# Abstracts

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

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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  $\mu$ 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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