

Abstracts

A Ku-band frequency converter using 0.25 /spl mu/m PHEMT technology

R.S. Virk, E. Camargo, H. Shimizu and S. Ichikawa. "A Ku-band frequency converter using 0.25 /spl mu/m PHEMT technology." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 639-642.

The design and performance of a Ku-band frequency converter is described for a 0.25 /spl mu/m GaAs pHEMT technology. The 1.0/spl times/1.6 mm/sup 2/ mixer chip provides as low as 4.5 dB up-conversion loss and 7 dB down-conversion loss over the Ku-band where $f_{\text{sub IF}}=1$ GHz.

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