

Abstracts

A Novel K-Band Balanced FET Up-Converter

T. Hirota and H. Ogawa. "A Novel K-Band Balanced FET Up-Converter." 1984 Transactions on Microwave Theory and Techniques 32.7 (Jul. 1984 [T-MTT]): 679-683.

The performance of the K-band balanced FET up-converter is described. A novel circuit configuration effective in enhancing conversion gain in the FET up-converter is proposed. An analysis using a simplified circuit model shows the effect of LO feedback in the balanced circuit. A conversion gain of 0.9 dB was experimentally obtained at 20 GHz. Maximum output power was 15.9 dBm.

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