Abstracts

A Frequency Translator Using Dual-Gate GaAs FETs

S.R. Mazumder, T.L. Tsai and W.C. Tsai. "A Frequency Translator Using Dual-Gate GaAs FETs." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 346-348.

An active 11.5 GHz frequency translator using four dual-gate FETs has been developed. Carrier and spurious sideband suppression of more than 20 dB has been achieved for translation frequency of up to 1 MHz. The same circuit can also be used as a high speed QPSK modulator with phase transition time of about 1 nanosecond.

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