

Abstracts

A Microstrip Low-Noise X-Band Voltage-Controlled Oscillator (1979 [MWSYM])

E.C. Niehenke and R.D. Hess. "A Microstrip Low-Noise X-Band Voltage-Controlled Oscillator (1979 [MWSYM])." 1979 MTT-S International Microwave Symposium Digest 79.1 (1979 [MWSYM]): 180-182.

Design and performance of an X-band microstrip bipolar varactor-tuned oscillator integrated with an FET amplifier is presented. Wide temperature operation (-55° to 71°C), constant high power (0.5 W), low post-tuning drift (0.75 MHz) for 8 percent tuning range, and exceptionally low FM noise (-132 dB/Hz at 1 MHz) is reported.

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