

# Abstracts

## The Injection-Locked-Oscillator as a Microwave Amplifier of MSK Modulated Signals

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*S. Kumar, W.J. Chudobiak and J.S. Wight. "The Injection-Locked-Oscillator as a Microwave Amplifier of MSK Modulated Signals." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 291-293.*

The use of an injection-locked-oscillator (ILO) as a microwave amplifier of minimum-shift-keying type of digitally modulated signal has been described. A large signal model of the ILO which identifies the key circuit parameters has been derived. Both the theoretical and experimental results in the form of the spectral spreading effect of a 6 GHz IMPATT microstrip ILO on the filtered 5 M bits/sec MSK signal have been presented. These results have been obtained for various values of the gain and the frequency offset.

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