

# Abstracts

## Subharmonically Pumped Schottky Diode Single Sideband Modulator

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J. Chramiec. "Subharmonically Pumped Schottky Diode Single Sideband Modulator." 1978 *Transactions on Microwave Theory and Techniques* 26.9 (Sep. 1978 [T-MTT]): 635-638.

A subharmonically pumped single sideband Schottky diode modulator is described. Its advantages are a large carrier suppression and lowered pumping frequency. The experimental 2-GHz MIC modulator pumped with an 8-mW signal exhibits a conversion loss of 6.2-7.3 dB over a 15-percent frequency band. For a 120- $\mu$ W input modulating signal, the unwanted components in the output spectrum are at least 18 dB and mostly over 20 dB below the desired sideband.

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