

# Abstracts

## A MMIC Subharmonically Pumped SSB Modulator (1993 Vol. I [MWSYM])

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*A. Pospishil, M. Russo and M. Singh. "A MMIC Subharmonically Pumped SSB Modulator (1993 Vol. I [MWSYM])." 1993 MTT-S International Microwave Symposium Digest 93.1 (1993 Vol. I [MWSYM]): 399-402.*

An innovative monolithic Single Sideband Modulator (SSBM), which utilizes balanced subharmonically pumped mixers, has been developed. This SSBM is pumped at one half of the carrier frequency ( $f_{\text{sub c}}/2$ ). The typical measured performance of this device is excellent with > 40dB carrier suppression, > 25dB undesired sideband suppression and < 10dB conversion loss over a carrier bandwidth of 14 to 19GHz. Double sideband suppressed carrier (DSBSC) and unsuppressed carrier operation is also achievable with the same device when appropriate modulation signals are applied.

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