

MMIC SSB Frequency Translators with Image-Rejection for Satellite Transponder Applications (1995 [MCS])

A.H. Baree, I.D. Robertson and J.S. Bharj. "MMIC SSB Frequency Translators with Image-Rejection for Satellite Transponder Applications (1995 [MCS])." 1995 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 95.1 (1995 [MCS]): 221-224.

A highly integrated design for advanced monolithic single side-band frequency translators are presented in this paper. Two monolithic chips have been realised which exhibit between 18-45dB of upper side-band rejection over C, X, and Ku-band. The chips are designed for small band-to-band frequency translations (such as uplink to downlink) in satellite communications transponders. Since the chips exhibit a wide-band response, image-rejection is also obtained for both chips.

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