

Abstracts

Frequency Translation MMICs Using InP HEMT Technology (1996 [MCS])

L. Tran, M. Delaney, R. Isobe, D. Jang and J. Brown. "Frequency Translation MMICs Using InP HEMT Technology (1996 [MCS])." 1996 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 98. (1996 [MCS]): 193-196.

Frequency translation circuits are key elements in communication systems. This paper presents three different frequency multipliers and a frequency mixer designed using the InP HEMT technology. These successful first iteration MMICs are highlighted by a V-band frequency quadrupler that has 14.25 dB conversion gain with +3.25 dBm output power and a V-band mixer that has 10dB conversion loss over a 12 GHz bandwidth.

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