Abstracts

Frequency Translation MMICs Using InP HEMT Technology

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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 quadruple 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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