

Abstracts

W-Band MMIC VCO with a Large Tuning Range Using a Pseudomorphic HFET

A. Bangert, M. Schlechtweg, M. Lang, W. Haydl, W. Bronner, T. Fink, K. Kohler and B. Raynor. "W-Band MMIC VCO with a Large Tuning Range Using a Pseudomorphic HFET." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 525-528.

A widely tunable oscillator with a center frequency of 94 GHz including a two stage buffer amplifier has been designed and fabricated. The output power was 6 mW. The mechanical tuning range by removing air-bridges was 18 GHz. The electrical tuning range was 8 GHz. The noise performance was better than -67 dBc/Hz at 1 MHz from the carrier.

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