

Abstracts

A Bipolar Oscillator for the 6 GHz Communications Band

K.R. Varian. "A Bipolar Oscillator for the 6 GHz Communications Band." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 539-540.

A Si bipolar transistor, cavity stabilized, oscillator is described that exhibits phase noise that is greater than 83dB below a reference 100KHz tone 300KHz from the carrier in a 3.1KHz bandwidth, less than 2 watts power consumption at 25°C, a typical frequency stability of $\pm 0.00035\%$ over the -20 to 70°C, and utilizing packaged devices.

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