

Abstracts

Fast-Settling, Low Noise Ku Band Fundamental Bipolar VCO

A.P.S. Khanna. "Fast-Settling, Low Noise Ku Band Fundamental Bipolar VCO." 1987 MTT-S International Microwave Symposium Digest 87.2 (1987 Vol. II [MWSYM]): 579-581.

This paper discusses fast-settling fundamental-output voltage-controlled oscillators in the Ku Band (15 to 18 GHz & 12 to 15 GHz), using silicon bipolar transistors and silicon varactor diodes. With these oscillators the output frequency settles within 2 μ s to within ± 1 MHz of the final frequency. Phase noise at 16.2 GHz was measured to be -93 dBc/Hz at 100 kHz from the carrier.

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