Abstracts

A 62-GHz Monolithic InP-Based HBT VCO

H. Wang, K.-W. Chang, D.C.W. Lo, L.T. Tran, J.C. Cowles, T.R. Block, G.S. Dow, A. Oki, D.C. Streit and B.R. Allen. "A 62-GHz Monolithic InP-Based HBT VCO." 1995 Microwave and Guided Wave Letters 5.11 (Nov. 1995 [MGWL]): 388-390.

A monolithic V-band VCO using InP-based HBT technology has been designed, fabricated, and tested. This VCO delivers a peak output power of 4 dBm at a center frequency of 62.4 GHz with a tuning range of 300 MHz. The measured phase noise shows -78 dBc/Hz at 100 kHz offset and -104 dBc/Hz at 1 MHz offset. To our knowledge, this is the highest frequency fundamental-mode oscillator ever reported using bipolar transistors.

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