Abstracts

A 37/spl sim/50 GHz InP HBT VCO IC for OC-768 fiber optic communication applications

Liyang Zhang, R. Pullela, C. Winczewski, J. Chow, D. Mensa, S. Jaganathan and Ruai Yu. "A 37/spl sim/50 GHz InP HBT VCO IC for OC-768 fiber optic communication applications." 2002 Radio Frequency Integrated Circuits (RFIC) Symposium 02. (2002 [RFIC]): 85-88.

This paper reports a 50 GHz voltage-controlled-oscillator (VCO) integrated circuit (IC) designed for OC-768 fiber optic communication applications. Implemented with a 140 GHz f/sub t/ InP HBT technology, the VCO IC is designed based on a modified Colpitts configuration with a unique resonator to maximize the tuning range. Tuned by a single-ended voltage, the VCO exhibits 37/spl sim/50 GHz (30%) tuning range over a tuning voltage range of 1.2 V.

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