Abstracts

Comparison of Measured and Computed Conversion Loss from a Resonant Tunneling Device Multiplier

C.V. Sammut and N.J. Cronin. "Comparison of Measured and Computed Conversion Loss from a Resonant Tunneling Device Multiplier." 1992 Microwave and Guided Wave Letters 2.12 (Dec. 1992 [MGWL]): 486-488.

The behavior of a resonant tunneling device (RTD) as a multiplier over a range of bias voltages is investigated. The experimental results agree well with large-signal simulations based on a simple equivalent circuit with element values derived from the I-V characteristic and low-frequency small-signal impedance measurements. The technique can be extended to assist in the design and realization of millimeter and submillimeter RTD multipliers.

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