Abstracts

Optimization of the Schottky Varactor for Frequency Multiplier Applications at Submillimeter Wavelengths

J.T. Louhi and A.V. Raisanen. "Optimization of the Schottky Varactor for Frequency Multiplier Applications at Submillimeter Wavelengths." 1996 Microwave and Guided Wave Letters 6.6 (Jun. 1996 [MGWL]): 241-242.

Schottky varactor frequency multipliers are used to generate the all-solid-state local oscillator power at submillimeter wavelengths. The aim of this work was to develop a routine that can be used to optimize the electrical and geometrical parameters of the Schottky varactor in order to maximize the output power of the submillimeter wave Schottky varactor frequency multiplier. The optimization of the epitaxial layer thickness and doping density and the anode area significantly increases the maximum theoretical output power at the THz range.

❑ Return to main document.