Abstracts

A New Way to Optically Control a Millimeter-Wave Oscillator (Short Papers)

Z. Yu and W. Lin. "A New Way to Optically Control a Millimeter-Wave Oscillator (Short Papers)." 1990 Transactions on Microwave Theory and Techniques 38.9 (Sep. 1990 [T-MTT] (Special Issue on Multifunction MMIC's and their System Applications)): 1360-1362.

This paper proposes a new way to optically control a millimeter-wave oscillator. In contrast to previously reported optically controlled oscillators, which usually give a negative frequency variance response to the controlling light signals, the method proposed here can produce a positive frequency variance. In our experiments, an increasing optically controlled frequency variance of about 150 MHz has been observed in a Ka-band Gunn oscillator.

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