

Abstracts

A Pulsed Microwave Oscillator Using Optically Controlled Active Feedback

W.D. Jemison and P.R. Herczfeld. "A Pulsed Microwave Oscillator Using Optically Controlled Active Feedback." 1992 Microwave and Guided Wave Letters 2.5 (May 1992 [MGWL]): 177-179.

An optically controlled microwave oscillator is demonstrated using MMIC compatible design techniques. The oscillator uses an optically controlled active inductor as a tunable feedback element in a two-port common gate FET circuit configuration. Experimental results are presented for a pulsed mode of operation that is triggered by illuminating the active feedback circuit.

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