

Abstracts

A Mode Locked Array of Coupled Phase Locked Loops

J.J. Lynch and R.A. York. "A Mode Locked Array of Coupled Phase Locked Loops." 1995 Microwave and Guided Wave Letters 5.7 (Jul. 1995 [MGWL]): 213-215.

An array of coupled phase locked loops is configured to produce a comb spectrum, and therefore pulsed microwave power, using a frequency locking technique analogous to the mode locked optical laser. The basic principles of operation are derived and measurements of an 11-GHz system, built from commercially available microwave components, demonstrate the frequency and time domain characteristics.

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