

# 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.

[Return to main document.](#)