

Abstracts

A two-dimensional coupled oscillator array

R.J. Pogorzelski. "A two-dimensional coupled oscillator array." 2000 Microwave and Guided Wave Letters 10.11 (Nov. 2000 [MGWL]): 478-480.

Design, fabrication, and test of a two-dimensional (2-D) coupled oscillator array is described. The array consists of nine voltage-controlled oscillators in a 3/spl times/3 configuration and operates at S-band. It is demonstrated experimentally that the array can generate planar phase distributions suitable for producing a radiated beam which is agile in two dimensions via tuning of the perimeter oscillators only. This is believed to be the first implementation of such an array.

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