

Abstracts

Injection-Locked 28-GHz Oscillator Array with Disk-Cylinder Reflector

M.J. Vaughan and R.C. Compton. "Injection-Locked 28-GHz Oscillator Array with Disk-Cylinder Reflector." 1996 Microwave and Guided Wave Letters 6.5 (May 1996 [MGWL]): 196-198.

A 28-GHz endfire (modified Vivaldi) active antenna is described that contains a secondary, circularly polarized patch antenna for reception of an external injection-locking signal. Three of these devices are used to characterize an octagonal cylindrical reflector designed for creating an omni-directional transmitter suitable for use in point-to-multipoint communication systems. The experiments provide data that validates the approach used to simulate the azimuthal radiation patterns. These simulations are then extended to predict the patterns from a full eight-element array.

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