

Abstracts

A three-dimensional quasi-optical source

J.A. Mazotta, K.S. Ching and W.A. Shiroma. "A three-dimensional quasi-optical source." 1999 MTT-S International Microwave Symposium Digest 99.2 (1999 Vol. II [MWSYM]): 547-550.

A three-dimensional quasi-optical source is presented, consisting of several C-band grid oscillators mounted on a photonic-crystal (PC) cube. By allowing the grids to oscillate at a frequency along the band edge of the PC, back-radiation from each grid mutually injection-locks the others. Experimental results indicate that this structure is potentially useful for omnidirectional active antennas.

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