Abstracts

28 GHz Onmi-Directional Quasi-Optical Transmitter Array (Short Papers)

M.J. Vaughan and R.C. Compton. "28 GHz Onmi-Directional Quasi-Optical Transmitter Array (Short Papers)." 1995 Transactions on Microwave Theory and Techniques 43.10 (Oct. 1995 [T-MTT]): 2507-2509.

Omni-directional base stations are needed in many emerging wireless communication systems. This paper presents the first adaptation of a quasi-optical oscillator array for this purpose. A 28 GHz active oscillator element containing a modified Vivaldi endfire antenna is utilized as the unit cell. Twelve of these are incorporated into the circular array, which is powered from a single dc power supply. The array has a high combining efficiency and remains frequency-locked over a span of 600 MHz.

❑ Return to main document.