Abstracts

A retrodirective array using balanced quasi-optical FET mixers with conversion gain

R.Y. Miyamoto, Yongxi Qian and T. Itoh. "A retrodirective array using balanced quasi-optical FET mixers with conversion gain." 1999 MTT-S International Microwave Symposium Digest 99.2 (1999 Vol. II [MWSYM]): 655-658 vol.2.

A novel retrodirective array with intrinsic gain has been developed and demonstrated successfully for the first time. Each heterodyne scattering element employs a balanced FET mixer, which provides effective isolation between RF and IF signals with identical frequencies to realize phase conjugation. A 4-element array has been fabricated, which demonstrated excellent retrodirectivity.

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