

Abstracts

A Unilateral Injection-Locking Type Active Phased Array for Beam Scanning

J. Lin, S.T. Chew and T. Itoh. "A Unilateral Injection-Locking Type Active Phased Array for Beam Scanning." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 1231-1234.

An active phased array using unilateral injection-locked oscillators was developed. The phase shift is controlled by electronic tuning and the beam scanning is demonstrated. Amplifiers inserted between oscillators eliminate reverse injection locking and control the locking bandwidth. Both theory and experimental result are presented and discussed.

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