

Abstracts

An FET Oscillator Element for Spatially Injection Locked Arrays

J. Birkeland and T. Itoh. "An FET Oscillator Element for Spatially Injection Locked Arrays." 1992 MTT-S International Microwave Symposium Digest 92.3 (1992 Vol. III [MWSYM]): 1535-1538.

A new type of oscillator element for spatially injection locked arrays is presented. The element consists of an FET oscillator equipped with two patch antennas: one for reception of the injection signal and the other for radiating the oscillator output power. This element exhibits much broader locking bandwidths for a given injection signal than previous approaches.

Prototype circuits operating at 6 GHz exhibit a 270 MHz locking range with 46.5 dB isotropic gain.

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