

Abstracts

A Quasi-Optical HEMT Self-Oscillating Mixer

V.D. Hwang and T. Itoh. "A Quasi-Optical HEMT Self-Oscillating Mixer." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 1093-1096.

A Planar quasi-optical receiver circuit that compactly integrates a coupled slot antenna, and a HEMT self-oscillating mixer on the same substrate is developed for applications in microwave and MMW receiver arrays. The circuit exhibits an isotropic conversion gain of 4.5dB which is 7.5dB higher than the diode circuit previously reported.

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