

Abstracts

A Layered Negative Resistance Amplifier and Oscillator Using a FET and a Slot Antenna

S. Kawasaki and T. Itoh. "A Layered Negative Resistance Amplifier and Oscillator Using a FET and a Slot Antenna." 1991 MTT-S International Microwave Symposium Digest 91.3 (1991 Vol. III [MWSYM]): 1261-1264.

Prototypes of quasi-optical transmitter components (oscillator and amplifier) using FET's as 1-port devices are reported. By using a slot antenna and microstrip to slotline transition, the circuit portion and the antenna are separated on different interfaces. The oscillator exhibited 1% eclectically tuned range and the amplifier had a 2% locking range. The radiation patterns are also reported.

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