

Abstracts

Coaxially Coupled Ridge Waveguide Tunable Oscillator

R.S. Robertson and R.L. Eisenhart. "Coaxially Coupled Ridge Waveguide Tunable Oscillator." 1981 MTT-S International Microwave Symposium Digest 81.1 (1981 [MWSYM]): 235-237.

A coaxially coupled ridged waveguide oscillator circuit using a pulsed IMPATT diode is described. Mechanical tuning bandwidths of 800 MHz (8%) at X-band, instantaneous locking bandwidths greater than 5 percent at 10 dB gain, and a circuit efficiency of 95 to 100 percent have been realized with a silicon pulsed double drift IMPATT diode under large signal conditions.

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