

Abstracts

Building of a high precise and compact synthesizer in E-band by means of Gunn Oscillator and MMIC chipset

R. Tempel, U. Stehr, G. Lauggartner, J. Herrmann, R. Follmann, W. Simon, I. Wolff, H.-G. Meyer and G. Wende. "Building of a high precise and compact synthesizer in E-band by means of Gunn Oscillator and MMIC chipset." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 739-742.

This paper describes a high precise, compact, and low-priced Synthesizer assembled by using a Gunn Oscillator and a MMIC Chipset. Additionally, a simple but well designed Transition enables a direct mounting of the Harmonic Mixer on the end of waveguide. The Synthesizer generates an output signal between 70 and 75 GHz within a accuracy of ± 5 Hz.

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