Abstracts

A low-noise 2.5 THz heterodyne receiver with tunable reflector antenna for atmospheric OH-spectroscopy

R.G. Nitsche, R.U. Titz and E.M. Biebl. "A low-noise 2.5 THz heterodyne receiver with tunable reflector antenna for atmospheric OH-spectroscopy." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1727-1730.

For atmospheric research reliable low-noise receivers are necessary. In this paper we present a novel low-noise heterodyne receiver for 2.5 THz. A Schottky diode, the mixer key element, is embedded in a planar structure for optimized coupling to a low-noise broadband amplifier. The corner cube antenna can be tuned for optimal coupling to the local oscillator.

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