Abstracts

A 61 GHz Doppler Radar Using Inverted Strip Dielectric Waveguide

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The measurement of true speed over ground is of great importance for road as well as rail vehicles. Using simple mm-wave systems, there is a potentially wide range application in individual car traffic. In this context, a 61 GHz Doppler radar was investigated and tested. It is based on inverted strip dielectric waveguide for both oscillator/mixer and antenna. A simple Gunn element serves as transmitter as well as (self-oscillating) mixer. In this way, a simple, compact, and potentially low-cost system is realized.

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