Abstracts

A 76-77 GHz pulsed-Doppler radar module for autonomous cruise control applications

I. Gresham, N. Jain, T. Budka, A. Alexanian, N. Kinayman, B. Ziegner, S. Brown and P. Staecker. "A 76-77 GHz pulsed-Doppler radar module for autonomous cruise control applications." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1551-1554.

A single-substrate radar transceiver module suitable for 76-77 GHz pulsed-Doppler applications has been developed. The packaged transceiver, including three waveguide ports and IF output, measures 20/spl times/22/spl times/8 mm. The circuit is realized using discrete GaAs-AlGaAs PHEMTs, GaAs Schottky diodes and varactor diodes, as well as GaAs PIN and PHEMT MMICs mounted on a low-cost 127 /spl mu/m thick glass substrate.

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