Abstracts

Full MMIC millimeter-wave front end for a 76.5 GHz adaptive cruise control car radar

M. Camiade, D. Domnesque, P.F. Alleaume, A. Mallet, D. Pons and H. Dambkes. "Full MMIC millimeter-wave front end for a 76.5 GHz adaptive cruise control car radar." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1489-1492 vol.4.

This paper describes the development for volume production of a millimeter-wave front-end for a 76.5 GHz Adaptive Cruise Control (ACC) car radar. The ACC radar is based on a Frequency Shift Keying (FSK) concept. The millimeter-wave module is fabricated using a chip-set composed of only 3 MMICs: a local oscillator chip, a power transmitter chip and a down-converter receiver chip.

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