Abstracts

A sensor system based on SiGe MMICs for 24 GHz automotive applications

C.N. Rheinfelder, S. Lindenmeier, J.-F. Luy, C. Willner and A. Schuppen. "A sensor system based on SiGe MMICs for 24 GHz automotive applications." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 2239-2242 vol.3.

A near-range sensor for an electronic automotive cocoon from concept to realization is presented. Based on the commercial TEMIC SiGe technology on high and low resistivity Si substrate the DSSS- (direct sequence spread spectrum) concept allows a simplified all-round approach while maintaining high resolution below several millimeters with simultaneous compliance to ISM and cost requirements.

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