Abstracts

A Doppler Radar Sensor in Integrated Fin-Line Technique

L. Szabo and E. Jensen. "A Doppler Radar Sensor in Integrated Fin-Line Technique." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 472-474.

An experimental 35 GHz FSK-CW Radar Sensor is described. A low cost integrated FIN-line structure performs a fast switching VCO, hybrid junction, reflection type modulator and down converter. A single oscillator with a high Q varactor acts as both, transmitter source and receiver local oscillator. The integrated front end with IF preamplifier has a size of 5,0 x 5,5 x 1,8 cm^3. Its features are low cost, small size, a minimum number of components for a minimum range of 70 m with 1 m^2 effectiv radar cross section targets.

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