Abstracts

A 7.9-9.7 GHz on-chip radar receiver front-end for future adaptive X-band smart skin array antennas

R. Malmqvist, M. Alfredsson, A. Gustafsson and A. Ouacha. "A 7.9-9.7 GHz on-chip radar receiver front-end for future adaptive X-band smart skin array antennas." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 1431-1434 vol.3.

In this paper, we present a 7.9-9.7 GHz on-chip radar receiver front-end intended for a digital beamforming X-band smart skin phased array antenna. This agile single-chip receiver front-end could potentially enable a significant size and cost reduction of the microwave receiver modules in such an adaptive frequency hopping radar system. Measured results show a close to adequate performance.

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