Abstracts

W-Band Integrated Monopulse Radar Transceiver

P. Toulios, Y.-H. Shu, J. Navarro and R. Knox. "W-Band Integrated Monopulse Radar Transceiver." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 423-426.

Millimeter wavelength components remain difficult and expensive to fabricate. The use of these components for integrated transceivers further complicates designs and results in higher costs. This paper describes an integrated 94 GHz monopulse transceiver using microstrip and insular guide transmission lines. This hybrid integration uses four dielectric rod antennas which feed four insular lines configured to provide the monopulse comparator circuit for the transceiver front-end.

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