

Abstracts

A W-Band Channelized Monolithic Receiver (1989 Vol. I [MWSYM])

G.L. Lan, J.C. Chen, C.K. Pao, M.I. Herman and R.E. Neidert. "A W-Band Channelized Monolithic Receiver (1989 Vol. I [MWSYM])." 1989 MTT-S International Microwave Symposium Digest 89.1 (1989 Vol. I [MWSYM]): 103-107.

Several monolithic integrated circuits with state-of-the-art performances have been successfully developed for a W-band (75 to 110 GHz) channelized monolithic receiver. The receiver comprises one four-channel multiplexer, four balanced mixers, four IF amplifiers, and four local oscillators. All will be monolithically integrated into only three chips. This paper reports on the design, fabrication, and performance of each monolithic component and describes the complete W-band four-channel receiver integration.

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