

Abstracts

A W-Band Direct-Detection Radiometric Imaging Array

D.C.W. Lo, L. Yujiri, G.S. Dow, T.N. Ton, M. Mussetto and B.R. Allen. "A W-Band Direct-Detection Radiometric Imaging Array." 1994 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 94.1 (1994 [MCS]): 41-44.

We report a first W-band 1x 4 direct-detection radiometric imaging array based on MMIC technology. The imaging array was integrated with a W-band radiometric imaging system. Field image taken by the 1X4 imaging array in stepping push-broom mode shows excellent results. Successful demonstration of the 1X4 W-band radiometric imaging array indicates not only the maturity of MMW MMIC technology but also the feasibility of larger linear or two-dimensional radiometric imaging array based on the simple MMIC direct-detection approach.

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