Abstracts

Printed Circuit Antennas with Integrated FET Detectors for Millimeter-Wave Quasi Optics

W. Chew and H.R. Fetterman. "Printed Circuit Antennas with Integrated FET Detectors for Millimeter-Wave Quasi Optics." 1989 Transactions on Microwave Theory and Techniques 37.3 (Mar. 1989 [T-MTT]): 593-597.

Planar twin dipole microstrip antennas with integrated FET detectors have been constructed and found to provide antenna patterns suitable for millimeter-wave quasi-optical applications. The circuits are suitable as individual elements of an imaging array. A 63 GHz heterodyne mixer using such a circuit produced a system noise temperature of 7900 K.

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