Abstracts

Session 25 Introduction (1984 [MWSYM])

S. Dixon, Jr.. "Session 25 Introduction (1984 [MWSYM])." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 547-547.

The current research and development in the area of millimeter wave mixers is involved in the fabrication and processing of better Schottky barrier diodes for their applications in unique imbedding circuits. Because of their covertness and ability to penetrate battle field smoke, haze and fog, providing all weather capability in the millimeter-wave region, millimeter-wave mixers and subsystems are finding widespread application in tactical and strategic systems, such as communications, radar, target acquisition and submunitions. However, the use of conventional waveguide mixers for system applications often is hampered by their size, weight and labor intensive fabrication. To produce these mixers and subsystems at affordable cost, the use of hybrid planar integrated or monolithic circuit techniques will prove to be attractive because a large quantity of circuits can be fabricated by batch-processing of wafers using advanced semiconductor processing techniques.

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