

Abstracts

Uniplanar MMICs and Their Applications (1988 [MCS])

M. Muraguchi, T. Hirota, A. Minakawa, K. Ohwada and T. Sugeta. "Uniplanar MMICs and Their Applications (1988 [MCS])." 1988 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 88.1 (1988 [MCS]): 75-78.

Key uniplanar MMICs for a 26GHz full MMIC receiver have been designed and fabricated using 0.3 μ m-gate ion implanted GaAs IC processes. They consist of coplanar waveguides, slotlines, and lumped circuit elements (GaAs FETs, capacitors, etc.), which employ only one side of GaAs substrate and have no via holes and no polished thin substrates. The developed uniplanar MMICs yield improved RF performance, chip size reduction, and fabrication process simplification.

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