

Abstracts

Ku-Band Electronically Tunable Monopulse Receiver

J.M. Osterwalder. "Ku-Band Electronically Tunable Monopulse Receiver." 1971 Transactions on Microwave Theory and Techniques 19.7 (Jul. 1971 [T-MTT] (Special Issue on Microwave Integrated Circuits)): 627-633.

Techniques employed for Ku-band hybrid integrated microstrip components are discussed along with their performance data. The final integration results in a complete monopulse receiver with its own electronically tunable Gunn oscillator in a total packaged volume of 2.1 in³. Materials and their limitations are discussed. Electronically tunable Gunn oscillator performance at Ku band is demonstrated which leads finally to a brief discussion of the dynamic impedance properties of negative resistance diodes.

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