

Abstracts

12-GHz-Band FM Receiver for Satellite Broadcasting

Y. Konishi. "12-GHz-Band FM Receiver for Satellite Broadcasting." 1978 Transactions on Microwave Theory and Techniques 26.10 (Oct. 1978 [T-MTT] (Special Issue on Microwave and Millimeter-Wave Integrated Circuits)): 720-725.

This paper describes the low-noise low-cost receiver for satellite broadcasting with new technology developed by us. The paper also describes the image recovery theory, the design principle of our downconverter, a frequency-stabilized local oscillator with bipolar transistors, the required limiting factor of a filter, the removing circuit of an energy dispersal signal, and a parabolic antenna for circularly polarized waves together with the performance of our device. The experimental results obtained through the Communication Technology Satellite (CTS) are also shown.

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