

Abstracts

A New Microstrip Isolator and its Application to Distributed Diode Amplification

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A new form of microstrip isolator is described here which was discovered during our search for an improved technique to obtain stable amplification with negative-resistance diodes distributed along a transmission line. We also report its successful application to that problem. This device uses a principle of nonreciprocal wave propagation which is also suitable for circulators. It may find other applications.

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