

Abstracts

New Uniaxial-Ferrite Millimeter-Wave Junction Circulators

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Progress is reported in the development of millimeter-wave microstrip and waveguide junction circulators for the band near 31 GHz. By exploiting the properties of high-anisotropy magnetic materials, external magnet requirements are eliminated. Favorable isolation and insertion loss performance, with good temperature stability, are achieved. Design tradeoffs involve device structure and magnetic material parameters.

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