Abstracts

Oversize Waveguide Quasioptical Ferrite Devices

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Oversize waveguide quasioptical techniques, which have been used in the past to develop many components have not been used to design nonreciprocal ferrite devices at wavelengths as low as 1 mm. These Faraday rotation devices include an isolator, four-port circulator, and modulator. Initial experiments have demonstrated the rotation phenomena and yielded information on ferrite properties at these small wavelengths. In this paper, devices will be described ad experimental data will be given. Previous work on millimeter Faraday rotation devices has been at longer wavelengths and used standard sized waveguide.

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