

Development of a reflection circulator designed for use in quasi-optical beam systems is reported. Requirements of a millimeter-wave radar motivated the project, but the attractive ...

In this work, we experimentally demonstrate the simultaneous one-way transmission and unidirectional reflection by using a magneto-optical Fabry-Pérot cavity and a magnetic field strength of 50 mT. An ...

Abstract: A quasi-optical Faraday rotation ferrite circulator for microwave or millimeter radiation is analyzed by a matrix formalism. Both reflection and transmission configurations at oblique incidence ...

A high-isolation polarization-independent optical quasi-circulator with a simple structure is proposed. A Porro prism is employed in this kind of device for what is believed to be the first time. Because a ...

In this paper, we demonstrate reversible optical isolators and three-port quasi-circulators based on the MOFP cavity. In comparison to conventional MO nonreciprocal devices, our scheme requires a ...

This paper demonstrates state-of-the-art performance for four-port quasi-optical circulators with 60-dB isolation, 0.2-dB insertion loss, and better than 80-dB return loss for devices...

A four-port quasi-optical circulator has been designed, built and tested for operation in the millimetre wave band. The specific circulator reported here was investigated over a 20 GHz bandwidth, centred ...

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Quasi optical (QO) systems are often used in high-field EPR and DNP systems to separate the incident microwave beam from the reflected beam. Furthermore, quasi optics is a versatile technology to build ...

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