

Submillimeter quasioptical semiconductor isolators

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A subject of the research is the development of a quasioptical submillimeter wave isolator. To this end, the wave reflection from a circular dichroic mirror (CDM) is used. Two models of the mirror of this kind have been realized on the basis of a semiconductor (n-InSb) structure placed in longitudinal magnetic field. Testing results of the quasioptical isolators functioning over the 0.8-1.0 mm wave range are presented.

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