

Abstracts

THz Dichroic Plates for Use at High Angles of Incidence

*P.H. Siegel, R.J. Dengler and J.C. Chen. "THz Dichroic Plates for Use at High Angles of Incidence." 1991 *Microwave and Guided Wave Letters* 1.1 (Jan. 1991 [MGWL]): 8-9.*

The design of a high frequency dichroic plate consisting of an electrically thick self supporting metallic mesh that can be used in a linearly polarized quasi-optical system at high angles of incidence is described. The measured and computed performance of a 2.5-inch aperture mesh is given. This mesh has a 3-dB cutoff frequency of 875 GHz and less than 0.75 dB of transmission loss from 950-1350 GHz at incidence angles of 0, 30, and 45 degrees. The results of a multimode waveguide analysis corroborate the measured data.

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