

Abstracts

Quasi-Optical Components Using Total Reflection in Dielectrics (Correspondence)

D.W. Hanson. "Quasi-Optical Components Using Total Reflection in Dielectrics (Correspondence)." 1970 Transactions on Microwave Theory and Techniques 18.4 (Apr. 1970 [T-MTT]): 233-234.

Two quasi-optical components operating at 90 GHz which use the effects of a metal plate on total reflection are described. A circular polarizer and, with the addition of a metal plate grating, a device having properties similar to a tuned turnstile junction were constricted. Experimental results showed better than 99 percent polarization conversion for the polarizer.

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