

# Abstracts

## A New Type of Quasi-Optical Waveguide Component (Correspondence)

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*J.W. Carson. "A New Type of Quasi-Optical Waveguide Component (Correspondence)." 1970 Transactions on Microwave Theory and Techniques 18.1 (Jan. 1970 [T-MTT]): 57-58.*

A new form of quasi-optical waveguide component has been designed that is based on use of the Brewster angle and on the rapid variation of reflectance and change of phase near the critical angle. An attenuator was built in S-band waveguide and its performance measured at 35 and 94 GHz. Diffraction is the limiting factor on the device operation, so practical device applications will likely be limited to 1-mm wavelengths and less.

 [Return to main document.](#)