

# Abstracts

## A Quasi-Optical Amplifier

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C.-Y. Chi and G.M. Rebeiz. "A Quasi-Optical Amplifier." *1993 Microwave and Guided Wave Letters* 3.6 (Jun. 1993 [MGWL]): 164-166.

A quasi-optical amplifier suitable for Gaussian-beam applications is presented. The amplifier is based on the integrated horn antenna and uses polarization duplexing to isolate the output beam from the input beam. A prototype hybrid amplifier is reported here with a measured gain of 10.5 dB at 5.92 GHz. The amplifier design is uniplanar, compact, and is compatible with the fabrication process of HEMT transistors at millimeter-wave frequencies.

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