

Abstracts

A Quasi-Optical Amplifier

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.

 [Return to main document.](#)