

# Abstracts

## Hybrid Coupled Microstrip Reflection Amplifiers

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*D. Rubin. "Hybrid Coupled Microstrip Reflection Amplifiers." 1982 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 218-220.*

A two-stage (four diode) hybrid coupled amplifier has been fabricated on microstrip using Indium Phosphide Gunn diodes. A minimum of 5 dB gain was achieved over 33-38 GHz. The gain of this type of amplifier is very dependent on input and output VSWR. It will be shown analytically that these devices, even when constructed monolithically, will be limited to narrow bandwidths.

 [Return to main document.](#)