

# Abstracts

## A flip-chip MMIC design with CPW technology in the W-band

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*T. Hirose, K. Makiyama, T.M. Shimura, S. Aoki, Y. Ohashi, S. Yokokawa and Y. Watanabe. "A flip-chip MMIC design with CPW technology in the W-band." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 525-528.*

We designed and fabricated a W-band flip-chip MMIC amplifier with a coplanar waveguide (CPW) transmission line using 0.15 /spl mu/m InGaP-InGaAs HEMT technology. In addition, we present a test structure for obtaining an accurate flip-chip CPW line model, and demonstrate a two-stage flip-chip MMIC amplifier with a gain of 12 dB at 79 GHz to validate this model.

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