

# Abstracts

## 94 GHz Power Amplifier Using PHEMT Technology

*L. Marosi, M. Sholley, J. Goel, A. Faris, M. Siddiqui, D.I. Stones and K. Tan. "94 GHz Power Amplifier Using PHEMT Technology." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1597-1600.*

A millimeter wave power amplifier has been developed using power MMICS based on 0.10 micron T-gate pseudomorphic HEMT technology. It uses four MMIC chips in parallel with a low loss 4-way power combiner with two cascaded driver amplifier stages. The amplifier module demonstrated 100 mW output power with more than 32 dB linear gain at 94 GHz. These results are attributed to the excellent device and combiner performance.

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