

## Power performance of thermally-shunted heterojunction bipolar transistors

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*T. Jenkins, C. Bozada, C. Cerny, G. DeSalvo, R. Dettmer, J. Ebel, J. Gillespie, C. Havasy, L. Kehias, K. Nakano, C. Pettiford, T. Quach, J. Sewell, D. Via and R. Anholt. "Power performance of thermally-shunted heterojunction bipolar transistors." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 949-952.*

The effects of layout and thermal shunt configuration on output power, efficiency, and gain of thermally-shunted AlGaAs/GaAs HBT's were investigated. A maximum power density of 16 mW//spl mu/m/sup 2/ at 10 GHz (CW) was observed. The power gain and power-added efficiency (PAE) at this power density were 7.8 dB and 65%, respectively.

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