

# Abstracts

## GaAs/GaAlAs Power HBTs for Mobile Communications

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*H. Wang, C. Pinatel, M. Tsouli, J.O. Plouchart, A. Konczykowska, M. Riet, S. Vuye and P. Berdaguer. "GaAs/GaAlAs Power HBTs for Mobile Communications." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 549-552.*

GaAlAs/GaAs power HBTs have been investigated for handsets in mobile cellular communication systems at 1.8 GHz. Different HBT's operating classes have been compared, and the choice of the optimum operating class has been discussed. Experimental measurements on a small chip size HBT of  $0.4 \times 0.4 \text{ mm}^2$  have shown 1 W output power with a power-added efficiency of 45%.

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