

Abstracts

A Ka-band HBT MMIC power amplifier

S. Tanaka, S. Yamanouchi, Y. Amamiya, T. Niwa, K. Hosoya, H. Shimawaki and K. Honjo. "A Ka-band HBT MMIC power amplifier." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. I [MWSYM]): 553-556.

This paper reports on the fully matched, HBT MMIC power amplifier operating at the Ka-band with >1W CW output power. At 30 GHz, the power amplifier delivered maximum output power of 1.59 W with peak PAE of 35% and 6.5-dB linear gain. The achieved performance indicates that HBTs are strong candidate as cost-effective MMICs for Ka-band wireless applications.

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