Abstracts

A 2 W, high efficiency, 2-8 GHz, cascode HBT MMIC power distributed amplifier

J.Ph. Fraysse, J.P. Viaud, M. Campovecchio, Ph. Auxemery and R. Quere. "A 2 W, high efficiency, 2-8 GHz, cascode HBT MMIC power distributed amplifier." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. I [MWSYM]): 529-532.

In this paper a new topology for wideband power distributed amplifiers is proposed. This topology is based on a nonlinearly optimized HBT cascode cell. More than 2 W have been measured in the 2-8 GHz frequency range with an associated gain of 9 dB and a PAE higher than 20%. Those results have been found in good agreement with the simulated ones.

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