Abstracts

An integrated 900-MHz push-pull power amplifier for mobile applications

M.J. Matilainen, K.L.I. Nummila, E.A. Jarvinen and S.J.K. Kalajo. "An integrated 900-MHz push-pull power amplifier for mobile applications." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 861-864.

This paper describes a two-stage 900-MHz push-pull type GaAs HBT MMIC power amplifier with 3.2W (35dBm) maximum output power and 57% maximum power added efficiency with a supply voltage of 3.5V. The small-signal gain of the PA is 30dB. The size of the realized power amplifier chip is 1.2*1.3mm/sup 2/. The drawbacks and advantages of the push-pull topology are discussed and compared to a traditional single-ended topology.

❑ Return to main document.