Abstracts

A High-Efficiency HBT Cellular Power Amplifier with Integrated Matching Networks

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The design, modeling, and characterization of an HBT cellular power amplifier using M/A-COM's glass-based technology is presented. The power amplifier features a single positive supply with fully integrated on-chip input and on-chip output matching circuits. The amplifier exhibited greater than 62% PAE for a collector voltage from 3 to 6V at 830MHz operating frequency, which is a record-high PAE using an integrated matching network with a single positive supply.

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