

Abstracts

A broadband monolithic S-band class-E power amplifier

R. Tayrani. "A broadband monolithic S-band class-E power amplifier." 2002 Radio Frequency Integrated Circuits (RFIC) Symposium 02. (2002 [RFIC]): 53-56.

This paper describes what is believed to be the first successful design and fabrication of a highly efficient broadband monolithic class-E power amplifier that operates at S-band and employs a $0.3 \text{ } \mu\text{m}$ pHEMT device. The amplifier measured performance shows a peak Power Added Efficiency (PAE) of 90% and a peak output power of greater than 23 dBm at 3.25 GHz.

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