

Cascode-delay-matched distributed amplifiers for efficient broadband microwave power amplification

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We present a broadband distributed power amplifier topology capable of providing efficiencies approaching 50%. Unlike tapered-drain-line power TWAs, high- Z_{out} lines are not required, greatly improving realizability in MMIC implementation. An experimental hybrid achieved bandwidth 25% of f_{max} with 15 dB gain and 30% power-added-efficiency.

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