

## A Low Distortion and High Efficiency Parallel-Operation Power Amplifier Combined in Different Phases in Wide Range of Load Impedances

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We proposed a new four-paralleled power amplifier combined in different phases in order to accomplish a low distortion and high efficiency in wide range of load impedances. We studied them by simulation and experiment and realized an amplifier in that adjacent channel leakage power of  $\pi/4$ -DQPSK modulation was improved by 13dB in range of load VSWR  $\leq 3$  without decreasing efficiency.

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