

Abstracts

Effect of efficiency optimization on linearity of LINC amplifiers with CDMA signal

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The linear and efficient power amplification can be achieved with LINC (linear amplification with nonlinear components) amplifiers because RF power amplifiers deal with constant envelope signals in LINC systems. To increase the average efficiency in some modulation schemes with high peak to average ratio, reactance termination in combining circuit is used. However, the shunt reactance termination degrades the linearity performance of LINC. This work shows the effect of efficiency optimization with reactance termination on ACLR (Adjacent Channel Leakage Ratio) of LINC amplifiers with WCDMA modulation systems using envelope simulation.

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