

A simple method to cut down configuration of feedforward power amplifier

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This paper describes a low cost and simple design method for feedforward linear power amplifier. The adaptive control techniques are employed in loop I to cancel carrier and extract error signal. In the loop II, the lookup table method of temperature correction is utilized for ensuring third-order intermodulation products (IMD/sub 3/) cancellation. The achievement has been realized in 460 MHz multicarrier power amplifier and CDMA base station power amplifier. The two-tone (IMD/sub 3/) are less than 62 dBc and the operation bandwidth is more than 20 MHz at 460 MHz. The ACPR of CDMA power amplifier is better than 40 dBc.

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