

Abstracts

A simple method to cut down configuration of feedforward power amplifier

Xiaowei Zhu, Jianyi Zhou, Wei Hong and Hongxin Zhao. "A simple method to cut down configuration of feedforward power amplifier." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 791-794.

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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