Abstracts

Analog predistortion linearizer for high power rf amplifier

Jaehyok Yi, Youngoo Yang, Myungkyu Park, Wonwoo Kang and Bumman Kim. "Analog predistortion linearizer for high power rf amplifier." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1511-1514.

Analog predistortion linearizer for the high power amplifier of CDMA base station has been developed. To suppress the spectral regrowth in the adjacent channel effectively, the odd order intermodulation distortions should be cancelled. For the purpose, the predistorter, which can cancel the 3rd and 5th intermodulation distortions independently, has been employed. The implemented pre-distorter linearized the RF amplifier with average power 45 dBm at 2.37-2.4 GHz band. 9 dB suppression of spectral regrowth was achieved for CDMA signal over 30 MHz bandwidth.

❑ Return to main document.