

Abstracts

High-efficiency low-IM microwave PA design

P. Colantonio, F. Giannini, G. Leuzzi and E. Limiti. "High-efficiency low-IM microwave PA design." 2001 MTT-S International Microwave Symposium Digest 01.1 (2001 Vol. I [MWSYM]): 511-514 vol. 1.

Harmonic terminations effects in microwave power amplifiers on its power and linearity performances are discussed. By a simplified theoretical approach, useful guidelines are inferred to obtain both high efficiency and low intermodulation. The concepts discussed are experimentally validated showing the performances of four hybrid amplifiers, designed using different harmonic manipulation strategies. In particular, using a proper input second harmonic output termination, an improvement both in power added efficiency and intermodulation can be obtained.

[Return to main document.](#)