Abstracts

High power time domain measurement system with active harmonic load-pull for high efficiency base station amplifier design

J. Benedikt, R. Gaddi, P.J. Tasker, M. Goss and M. Zadeh. "High power time domain measurement system with active harmonic load-pull for high efficiency base station amplifier design." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1459-1462.

A measurement system combining vector corrected waveform measurements with active harmonic load-pull extends, for the first time, real-time experimental waveform engineering up to the 30 W power level. This novel harmonic load-pull approach is demonstrated on a 4 W LDMOS device. A 20% increase in maximum output power to 4.7 W without degrading gain and efficiency was realized.

❑ Return to main document.