

# Abstracts

## Simulation and Experimental Results of Source Harmonic Tuning on Linearity of Power GaAs FET Under Class AB Operation

---

*S. Watanabe, S. Takatuka, K. Takagi, H. Kuroda and Y. Oda. "Simulation and Experimental Results of Source Harmonic Tuning on Linearity of Power GaAs FET Under Class AB Operation." 1996 MTT-S International Microwave Symposium Digest 96.3 (1996 Vol. III [MWSYM]): 1771-1774.*

Nonlinearity of GaAs FET amplifiers under class AB operation such as abrupt increase of the output power against the input power can be effectively reduced by suppressing even-order harmonic distortion in gate RF voltage. In this paper, we demonstrate the effect of the source harmonic tuning and condition for improving the linearity of power GaAs FET's under class AB operation by the source harmonic tuning technique.

[Return to main document.](#)