

Abstracts

A dynamic AM/AM and AM/PM measurement technique

A.A. Moulthrop, C.J. Clark, C.P. Silva and M.S. Muha. "A dynamic AM/AM and AM/PM measurement technique." 1997 MTT-S International Microwave Symposium Digest 3. (1997 Vol. III [MWSYM]): 1455-1458.

The AM/AM and AM/PM characteristics of a power amplifier are typically measured in a static manner using a CW signal. For communications signals, the amplitude envelope is varying so the distortion is actually occurring dynamically. This paper presents a technique to measure dynamic AM/AM and AM/PM. Results are presented for two examples of power amplification: a traveling-wave tube amplifier and a solid-state amplifier.

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