

Abstracts

Noise Behavior of a 15-GHz-AlGaAs/GaAs-HEMT-Oscillator

T. Felgentreff and G.R. Olbrich. "Noise Behavior of a 15-GHz-AlGaAs/GaAs-HEMT-Oscillator." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 935-938.

In this paper the noise behavior of a HEMT oscillator is analyzed theoretically and experimentally. We present a large signal equivalent circuit of the HEMT device which describes also the low and high frequency noise behavior in the considered frequency range. Calculations of oscillator phase noise using this large signal and noise model are compared with results of phase noise measurements.

 [Return to main document.](#)