Abstracts

Two-Dimensional Mapping of Amplitude and Phase of Microwave Fields Inside a MMIC Using the Direct Electro-Optic Sampling Technique

W. Mertin, A. Leyk, G. David, R.M. Bertenburg, S. Kosslowski, F.J. Tegude, I. Wolff, D. Jager and E. Kubalek. "Two-Dimensional Mapping of Amplitude and Phase of Microwave Fields Inside a MMIC Using the Direct Electro-Optic Sampling Technique." 1994 MTT-S International Microwave Symposium Digest 94.3 (1994 Vol. III [MWSYM]): 1597-1600.

For the first time, two-dimensional mappings representing both the amplitude and the phase of microwave fields inside a traveling-wave amplifier (TWA) are presented. The direct electro-optic sampling technique has been used for these measurements. Comparing amplitude and phase mappings at different frequencies the spatially and frequency resolved behaviour of the normal electric field component inside the TWA can be studied.

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