Abstracts

Characterization of Resistive Transmission Lines to 70 GHz with Ultrafast Optoelectronics

A. Deutsch, M.R. Scheuermann, G. Arjavalingam, L. Kneller, J.K. Tam and C.W. Surovic. "Characterization of Resistive Transmission Lines to 70 GHz with Ultrafast Optoelectronics." 1993 Microwave and Guided Wave Letters 3.3 (Mar. 1993 [MGWL]): 75-77.

The complete characterization of resistive transmission lines with the short-pulse propagation technique is extended to 70 GHz. The wide-frequency coverage is made possible by the use of ultrafast photoconductive switches for pulse generation and sampling. The picosecond optoelectronic sampling oscilloscope is described and results of measurements on thin-film strip transmission lines are presented.

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