Abstracts

Characterization of Picosecond Pulse Propagation in a Microstrip Line Divider

Y. Qian, L. Zhu and E. Yamashita. "Characterization of Picosecond Pulse Propagation in a Microstrip Line Divider." 1992 Microwave and Guided Wave Letters 2.5 (May 1992 [MGWL]): 191-193.

Many extremely broad bandwidth circuit components have to be newly developed for practical applications of ultrashort electrical pulses. Theoretical and experimental investigation of the transmission property of picosecond pulses through a microstrip line divider are reported. Full-wave analysis results in the frequency domain are incorporated into a Fourier transform algorithm for computer simulations of pulse propagation through a 3-db microstrip line divider with curved-line branching circuit pattern. An excellent agreement has been found between our theoretical predications and the results of experimental measurements.

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