

Abstracts

Packaging of Printed-Circuit Lines: A Dangerous Cause for Narrow Pulse Distortion

M. Tsuji and H. Shigesawa. "Packaging of Printed-Circuit Lines: A Dangerous Cause for Narrow Pulse Distortion." 1994 Transactions on Microwave Theory and Techniques 42.9 (Sep. 1994, Part II [T-MTT]): 1784-1790.

We report here a new behavioral feature of a narrow pulse transmitted on coplanar waveguide (CPW), putting the special stress on the effects caused by the packaging of such a waveguide. This feature occurs due to the unexpected simultaneous combination of a distortion in the guided main pulse and a production of delayed echo pulses. An explanation based on a new class of the dominant-mode power-leakage effect leads to a clear physical understanding of why such features necessarily appear.

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