

Abstracts

A Method for Evaluating the Noise Temperature of Microwave Thermal Noise Sources by Introducing an Auxiliary Transmission Line (Short Papers)

Y. Kato, K. Komiya and I. Yokoshima. "A Method for Evaluating the Noise Temperature of Microwave Thermal Noise Sources by Introducing an Auxiliary Transmission Line (Short Papers)." 1988 Transactions on Microwave Theory and Techniques 36.1 (Jan. 1988 [T-MTT]): 145-147.

A new method is proposed to evaluate the noise temperature of a microwave thermal noise source. The noise temperature correction dominated by the transmission line between the termination and the output is expressed in terms of directly measurable parameters. It can be determined by introducing an auxiliary transmission line composed of two lines connected back-to-back, each of which is identical to that of the unknown source.

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