

Abstracts

Transmission Phase Measurements with a Single Six-Port

G.P. Riblet. "Transmission Phase Measurements with a Single Six-Port." 1980 MTT-S International Microwave Symposium Digest 80.1 (1980 [MWSYM]): 431-433.

It is well known that two six-ports can be used to measure the S matrix parameters of a two port network. In this paper the point is emphasized that a single six-port is sufficient to measure the transmission phase of such a two port network. The transmission phase is frequently the quantity of most experimental interest. Two methods of measuring transmission phase with a single six-port are described and experimental confirmation is provided at X band (8.2 -12.4 GHz) and Ku band (12.4-18.0 GHz).

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