

Abstracts

A Homodyne System for the Measurement of Microwave Reflection Coefficients (Correspondence)

R.J. King and R.I. Christopherson. "A Homodyne System for the Measurement of Microwave Reflection Coefficients (Correspondence)." 1970 Transactions on Microwave Theory and Techniques 18.9 (Sep. 1970 [T-MTT]): 658-660.

The homodyne detection principle is applied to the measurement of microwave reflection coefficients. The system described is considerably more sensitive than video detection, is linear over a wide dynamic range, and allows simultaneous phase and amplitude measurements, with phase measurements amplitude insensitive. Two channels are used, one being amplitude modulated.

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