Abstracts

A Coaxial Adjustable Sliding Termination (Correspondence)

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The accuracy of impedance measurements using modified reflectometer techniques depends mainly upon the tuning of the reflectometer. This tuning is accomplished by sliding first a low-reflection termination and, then, a high-reflection termination (sliding short circuit) in the output waveguide of the reflectometer. The actual error that can occur due to imperfect tuning can be computed and depends to a large extent upon the size of the reflection coefficient of the low-reflection sliding termination. The lower this reflection coefficient is, the smaller the error will be. The adjustable sliding termination described in this paper was developed to reduce this reflectometer tuning error hence, the main emphasis was on obtaining a stable, very low-reflection coefficient.

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