Abstracts

Microwave Insertion Loss Test Set (Correspondence)

C.T. Stelzried and S.M. Petty. "Microwave Insertion Loss Test Set (Correspondence)." 1964 Transactions on Microwave Theory and Techniques 12.4 (Jul. 1964 [T-MTT]): 475-477.

A simple, accurate test set has been devised for measuring insertion losses at microwave frequencies. It is composed almost entirely of commercially available equipment and components. The short-term jitter is about 0.0004 db peak-to-peak, and long-term drift is typically 0.0015 db/hour. Accuracy of the measurements depends on the value of the insertion loss measured and is better than ±0.001 to ±3 percent for insertion loss measurements in the 0 to 25 db range. These accuracies include the non repeatability of connecting and disconnecting the waveguide flanges used in the system.

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