

Abstracts

Miniaturization of Microwave Assemblies

L. Lewin. "Miniaturization of Microwave Assemblies." 1956 Transactions on Microwave Theory and Techniques 4.4 (Oct. 1956 [T-MTT]): 261-262.

A method of construction is described in which waveguides are arranged in a single plane with adjacent walls common. An assembly is made from a top and bottom plate between which partition walls are arranged to constitute the transmission region. A hybrid-T is made from a 3 db coupler, and a microwave repeater is described consisting of five band-pass filters, two hybrid-T's, an isolator, and several other component aspects. Setting up in situ is achieved by the use of a Bethe hole coupler to monitor the reflection or transmission at a number of specially located check ports. No electric coupling can be measured across a soldered fabricated waveguide wall.

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