

Abstracts

Transmit-Receive Multiplexer for the 12-14-GHz Band

H.L. Thal, Jr.. "Transmit-Receive Multiplexer for the 12-14-GHz Band." 1982 Transactions on Microwave Theory and Techniques 30.9 (Sep. 1982 [T-MTT] (Special Issue on Microwave Filters)): 1324-1330.

A compact low-loss transmit-receive multiplexer for direct satellite broadcast of two television channels is described. The response synthesis for the two contiguous transmit channels is outlined. A circuit model for the filter-to-manifold coupling, methods for its control, and the optimization of the manifold spacings are discussed. A technique for improving the transmitter-to-receiver isolation is shown. Experimental responses are given.

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