

Abstracts

A 6-kw Peak Power Varactor Duplexer (Nov. 1962 [T-MTT])

J.C. Hoover. "A 6-kw Peak Power Varactor Duplexer (Nov. 1962 [T-MTT])." 1962 Transactions on Microwave Theory and Techniques 10.6 (Nov. 1962 [T-MTT]): 476-479.

A strip transmission line varactor duplexer was developed for 6-kw operation at 1600 Mc for a missile application. The insertion losses were 0.6 db from antenna to receiver, and 0.3 db from transmitter to antenna. Transmitter to receiver isolation was greater than 40 db. The paper discusses the parameters leading to the choice of varactor and circuit configuration as to provide the power handling ability. Also discussed are the characteristics of interest to system designers that are peculiar to the varactor duplexer.

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