

Abstracts

Reference Cavity Design Considerations

W.A. Gerard. "Reference Cavity Design Considerations." 1957 *Transactions on Microwave Theory and Techniques* 5.2 (Apr. 1957 [T-MTT]): 148-152.

The design problems in a reference cavity include coupling, cavity Q, temperature compensation, stability, and hysteresis. Temperature compensation is shown to be a problem in second order compensation theory and is solved by material changes. Stability is achieved by novel mechanical design and by elimination of hysteresis producing members.

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