

# Abstracts

## Calibrated Reflection Coefficient Standards for the Circular TE<sub>01</sub> Mode

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*K.S. Champlin, G.H. Glover, J.D. Holm and N.A. Patrin. "Calibrated Reflection Coefficient Standards for the Circular TE<sub>01</sub> Mode." 1968 Transactions on Microwave Theory and Techniques 19.2 (Feb. 1968 [T-MTT]): 90-94.*

This paper describes simple reflection coefficient standards for use with the circular TE<sub>01</sub> mode. They consist of circular irises inserted directly into the flange connection of a "matched" termination. The reflection coefficient of an iris is formulated exactly and then evaluated to any desired degree of approximation with a digital computer. The results of a 30-mode approximation are presented and shown to agree with 24 GHz measurements of the modulus and phase of  $|\rho|$  of 7 irises to within about 0.008 relative units and 0.02 radians, respectively.

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