

# Abstracts

## Analysis and Modeling of "Two-Gap" Coaxial Line Rectangular Waveguide Junctions

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A.G. Williamson. "Analysis and Modeling of "Two-Gap" Coaxial Line Rectangular Waveguide Junctions." 1983 *Transactions on Microwave Theory and Techniques* 31.3 (Mar. 1983 [T-MTT]): 295-302.

The analysis of "two-gap" coaxial line rectangular waveguide junctions is discussed. The cross-coupled junction, the 'coax-gap' mount are specifically considered. The theoretical expressions obtained yield results in excellent agreement with published experimental results. Equivalent circuits are presented for the two junctions applicable to the case where the TE<sub>10</sub> mode is the only propagating waveguide mode.

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