

Abstracts

A Stepped-Dielectric Transformer for Rectangular-to-Circular Waveguide (Correspondence)

B. Maher. "A Stepped-Dielectric Transformer for Rectangular-to-Circular Waveguide (Correspondence)." 1961 Transactions on Microwave Theory and Techniques 9.6 (Nov. 1961 [T-MTT]): 572-573.

A low-reflection transition between rectangular waveguide and circular guide can be made using a teflon transformer inserted into the circular guide. The transformer to be described was designed to mate a circular guide with WR(112) rectangular waveguide. A stepped-dielectric transformer of this type for WR(90) waveguide was reported by Olin and a stepped-dielectric transformer inserted in a rectangular waveguide was reported by Whiteman, et al.

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