Abstracts

Rectangular Waveguide Short Circuit with Cylindrical Slugs (Correspondence)

M. Rzepecka and S. Stuchly. "Rectangular Waveguide Short Circuit with Cylindrical Slugs (Correspondence)." 1966 Transactions on Microwave Theory and Techniques 14.3 (Mar. 1966 [T-MTT]): 161-162.

The design of precision waveguide choke shorts imposes many problems, especially as concerns millimeter wave devices. A guide consisting of a rectangular waveguide with a cylindrical rod placed along its axis mny help to solve the problem. Such arrangements are used in coaxial-to-strip line adapters. Adequate electric characteristics can be achieved in very simple mechanical designs of shorts comprising cylindrical sections of low and high impedance. To design such a short it is necessary to know, however, the wavelength in the rectangular waveguide comprising a cylindrical rod--a problem which still appears to be unsolved.

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