

Abstracts

A Transition from Rectangular to Nonradiating Dielectric Waveguide (Short Papers)

J.A.G. Malherbe, J.H. Cloete and I.E. Losch. "A Transition from Rectangular to Nonradiating Dielectric Waveguide (Short Papers)." 1985 Transactions on Microwave Theory and Techniques 33.6 (Jun. 1985 [T-MTT]): 539-543.

A transition between standard X-band waveguide and non-radiating dielectric (NRD) waveguide is described. It consists of a transition from air-filled rectangular waveguide to reduced-width dielectric-filled waveguide, cascaded with a transition to NRD. Both transitions are theoretically designed to provide both mode matching as well as a low reflection coefficient. The composite transition can be used for measurements in NRD while making use of conventional waveguide test equipment.

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