

## A Transition to Non-Radiating Dielectric Waveguide

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*J.A.G. Malherbe, J.H. Cloete and I.E. Losch. "A Transition to Non-Radiating Dielectric Waveguide." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 505-507.*

A transition between standard X-band waveguide and Non-radiating Dielectric (NRD) waveguide is described. It features an impedance taper from air-to- dielectric-filled waveguide cascaded with an impedance taper and mode converter to NRD. In both cases the taper shape and length are obtained through a theoretical calculation. The main property of the transition is a low reflection coefficient so that conventional waveguide equipment tank used for measurements in NRD waveguide.

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