

Abstracts

Matched Windows in Circular Waveguide (Short Papers)

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Design curves are presented for the matching of a dielectric window in circular waveguide propagating the dominant TE₁₁ mode. The matching is accomplished by thick or thin inductive irises which are in contact with the window on both sides. This configuration gives wide bandwidth and is mechanically convenient, but requires consideration of coupling of the higher order modes generated by the closely spaced discontinuities. Mode matching and the generalized scattering matrix are utilized.

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