

Abstracts

Reflection resonances and natural oscillations of two-aperture iris in rectangular waveguide

A.A. Kirilenko and L.P. Mospan. "Reflection resonances and natural oscillations of two-aperture iris in rectangular waveguide." 2000 *Transactions on Microwave Theory and Techniques* 48.8 (Aug. 2000 [T-MTT]): 1419-1421.

The total reflection resonances that take place at the excitation of a two-slot resonant iris in rectangular waveguide are discussed in this paper. Considering the iris as an open-resonator-waveguide structure, the pair of natural oscillations responsible for such resonances was numerically found and investigated. It is pointed out to a parallel between the rejection resonances in two-slot irises and "locked"-mode resonances in multimode waveguide structures.

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