

# Abstracts

## Some characteristics of ridge-trough waveguide

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*D. Guha and P.K. Saha. "Some characteristics of ridge-trough waveguide." 1997 Transactions on Microwave Theory and Techniques 45.3 (Mar. 1997 [T-MTT]): 449-453.*

A single-ridged waveguide with a symmetrical longitudinal trough below the ridge, designated as a ridge-trough waveguide (RTW) has been recently proposed as a wafer probe. The authors have theoretically calculated the cutoff, bandwidth, and impedance characteristics of this modified single-ridged waveguide in two different configurations using the Ritz-Galerkin technique and different domain decompositions. The results indicate that a RTW can be a low impedance broad-band structure.

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