

# Abstracts

## Full wave optimization of stripline tapped-in ridge waveguide bandpass filters

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*M.A. El Sabbagh, Heng-Tung Hsu, K.A. Zaki, P. Pramanick and T. Dolan. "Full wave optimization of stripline tapped-in ridge waveguide bandpass filters." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 1805-1808 vol.3.*

A bandpass ridge waveguide filter, with input/output realized through tapped-in stripline is designed. Using rigorous mode matching technique the generalized scattering matrices of all the building blocks can be obtained. Design procedure is described and examples are given to demonstrate the features of the proposed coupling structure. The proposed structure shows a considerable reduction of the filter's total length.

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