

# Abstracts

## High Speed Varactor Tuned Notch Filter

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*M. Mehdizadeh and B. Smilowitz. "High Speed Varactor Tuned Notch Filter." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 531-534.*

A design procedure for a varactor tuned notch filter is presented. The filter provides speed and agility required for ECM applications where a large interfering signal must be suppressed. The circuit is based on varactor tuned microstrip resonator which is edge coupled to the signal transmission line. A three stage filter is described which tunes to any frequency between 1070 and 1240 MHz in less than 5 microseconds. It has a 1 dB bandwidth of 100 MHz, a 20 dB bandwidth of 20 MHz, and an RF power capability of 10 mW.

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