

# Abstracts

## Full wave analysis and design of RF tunable filters

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*Jian Xu, Xiao-Peng Liang and K. Shamsaifar. "Full wave analysis and design of RF tunable filters." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 1449-1452 vol.3.*

In this paper, a systematic design method for the finline structure tunable filter is presented based on filter synthesis and the full wave analysis using Ansoft EM simulation software HFSS. The varactor effects have been discussed. Two filter examples, one in Ka- and the other in K-band, are built and tested to verify the design. The measurement results are in agreement with the simulations.

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