

## Filter-Like Design and Optimization of NRD-Guide Mode Suppressors

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*J. Huang, K. Wu, F. Kuroki and T. Yoneyama. "Filter-Like Design and Optimization of NRD-Guide Mode Suppressors." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 995-998.*

A new compact NRD-guide mode suppressor is proposed in this paper for wideband applications in NRD integrated circuits. Rigorous field-theoretical analysis and optimum design are carried out to determine frequency response of the proposed mode suppressor using a filter-like scheme. It is found that the transmission loss of a three-section mode suppressor is better than -30dB over the frequency band of interest. In addition, the length of the whole resulting mode suppressor becomes shorter than its counterpart using the choke metallic pattern by 20%.

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