

# Abstracts

## The improvement of miniaturized multilayer ceramic band-pass filter

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*M. Ishitobi, E. Ajioka, T. Abe and H. Ninomiya. "The improvement of miniaturized multilayer ceramic band-pass filter." 1999 MTT-S International Microwave Symposium Digest 99.3 (1999 Vol. III [MWSYM]): 1343-1346 vol.3.*

The improved loss of multilayer ceramic miniaturized band-pass filters and the improvement of the Q-factors by 10 percent are shown by putting the coaxial resonators into the multilayer structure. To find this solution, several typical resonators are optimized and the relationships between the volume and Q-factors are examined, with practical ceramic material parameters.

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