

## Balanced-input-output configuration of laminated planar filter suitable for next-generation super-compact portable telephones

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*H. Miyake, T. Ishizaki, S. Kitazawa, T. Yamada, K. Ogawa and I. Awai. "Balanced-input-output configuration of laminated planar filter suitable for next-generation super-compact portable telephones." 1999 MTT-S International Microwave Symposium Digest 99.3 (1999 Vol. III [MWSYM]): 1143-1146 vol.3.*

A balanced-input/output configuration of the dielectric laminated planar filter is originally investigated. So far, there has been no balanced dielectric filter. Thus first, a balanced coaxial filter is constructed to prove the basic concept. Then various laminated configurations are discussed to reduce the size. Finally, the possibility of the realization is confirmed experimentally. This filter is suitable for next-generation super-compact portable telephones.

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