

Abstracts

A Very Small Dielectric Planar Filter for Portable Telephones (Nov. 1994 [T-MTT])

T. Ishizaki, M. Fujita, H. Kagata, T. Uwano and H. Miyake. "A Very Small Dielectric Planar Filter for Portable Telephones (Nov. 1994 [T-MTT])." 1994 Transactions on Microwave Theory and Techniques 42.11 (Nov. 1994 [T-MTT]): 2017-2022.

A high performance, high-dielectric stripline filter with the size of 4.5 mm x 3.2 mm x 2.0 mm has been developed. The filter consists of planar resonators and its structure is made of high permittivity multilayer ceramic in the Bi-Ca-Nb-O system. The performance is distinctive with its attenuation pole. An equivalent lumped circuit is derived to explain the behavior of the attenuation pole quantitatively. A precise design procedure is also described.

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