

ELECTRONICS

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The Miniaturization of microwave filters ~~are~~ is of special importance in the electronics industry. Ceramic-laminated filters have been widely used ~~For~~ for cell phones ~~mobile telephones, ceramics laminated filters have been widely used;~~ and in particular, comb-line filters have been used extensively for ~~made~~ practical applications ~~use~~. In this study, we design comb-line filters in which ~~where~~ both sides of the dielectric substrate are utilized ~~are designed~~. A ~~C~~ comb-line filter consists of two quarter ~~quarter~~-wavelength resonators. Strong coupling between the two resonators is ~~can be obtained~~ achieved by installing a patch conductor on the dielectric substrate over ~~placed above the~~ resonators. A ~~M~~ method involving installation of ~~a~~ installing coupling capacitor by via creation of ~~inserting~~ slots into the ground plane is discussed. The use of a defected ground structure (DGS) has recently been attracting attention as an approach for creating ~~As a method of~~ inserting slots into ~~at~~ the ground plane, a defected ground structure (DGS) has attracting much attention.

Comment [A1]: If you're specifically referring to the comb-line filter proposed here, then please use the article "the."