

Abstracts

Asymmetric Bandpass Filter Using a Novel Microstrip Circuit

*P.L. Field, I.C. Hunter and J.G. Gardiner. "Asymmetric Bandpass Filter Using a Novel Microstrip Circuit." 1992 *Microwave and Guided Wave Letters* 2.6 (Jun. 1992 [MGWL]): 247-249.*

A method for increasing the skirt, selectivity on one side of a bandpass filter is presented. One such application is the receive filter of a PCN mobile terminal. An asymmetric synthesis method has been used, realising finite transmission zeros as cross couplings. A novel microstrip structure has been devised to demonstrate the electrical design. Although the insertion loss measured was greater than that required for a practical system, the procedure described is applicable to compact dielectric resonator structures with potentially lower loss capability.

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