Abstract

Filter is very essential component in wireless communication system. Since need of compact devices is increasing day by day, Filter plays very important role in developments of such devices. In this paper, multiband micro strip stepped impedance resonator band pass filters operating in range of 1 to 10 GHz are designed. A series capacitively coupled series micro strip line resonator is modified by first widening the central section and then engraving multiple rectangular slots on it. Due to this size of the filter is reduced and filter can be operated in multiband. Filter operated in tri-band and quad band are designed. This paper consists of mathematical analysis & partial implementation of capacitively coupled multiband filters. The
simulation is done by using IE3D software for wireless applications.

References


Index Terms

Computer Science

Wireless Communications
Keywords
Micro Strip  Multiband Filters  Stepped Impedance Resonators  Tri-band  Quad-band.