Abstract

A compact multiband planar antenna is designed for mobile phone applications in this paper. A planar monopole antenna into distributed radiating elements has designed to obtain good antenna performance. The proposed antenna is combined of a chopped circular radiator with a meander line and an L-strip coupled element which is an extension of the ground plane. A chopped circular patch and L-shaped coupling strip generates lower band and separate radiator and meander lines generates upper band. A planar structure has dimensions as 17.6 × 56 mm. Such a planar structure has printed on circuit board. Antenna covers wireless communication bands as LTE 750, GSM 850, GSM 900, DCS 1700, UMTS-2110, and UWB 3100. The designed antenna performance has checked with the help of IE3D simulation software. The proposed antenna has designed and tested practically.

References

- Mazinani, S. M. and H. R. Hassani, "A wideband internal plate loaded planar...
Design of 4G Antenna for Mobile Handset


- A. Asghar, M. Malick, M. Karlsson, Member, IEEE, and A. Hussain

Index Terms

Computer Science Communications

Keywords
Multiband planar Antenna meander line communication bands mobile phone.