{tag} {/tag}International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 179
-
Number 45

Year of Publication: 2018

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10.5120/ijca2018917132

{bibtex}2018917132.bib{/bibtex}

Abstract

In this paper, a 1x2 array of square monopole antenna using a Frequency Selective Surface layer having a high gain is proposed. The FSS layer reflector is placed below the microstrip line fed monopole antenna. The monopole and FSS layer are designed on duroid and FR4 substrate respectively. The antenna is operated on 2.3 GHz WiMAX band frequency. The antenna structure dimensions are 213 mm × 213 mm.

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Index Terms

Computer Science Communications

Keywords

Square Monopole Antenna; FSS layer; high gain antenna; WiMax bands