

无线通讯用硅基微小Spiral天线的设计和制作

作者: 郭兴龙, 黄静

单位: 南通大学

基金项目:

摘要:

微小双波段天线通过采用微电子加工工艺在高电阻率硅片上被设计和制备, 测试得到天线基本为全向辐射, 增益为2.8dBi, 辐射系数分别为25dB和23dB, 此天线的设计制造利于IC集成。文章还重点对天线的制作工艺进行了详细地介绍, 对于以后此

关键词: 微小; spiral天线; 硅基底; IC工艺

Design and Fabrication of Miniature Spiral Antenna Based on Silicon Substrate Using Wireless

Author's Name:

Institution:

Abstract:

In this paper, small antenna was designed and fabricated on high-resistivity silicon(HR-Si) by micro-electronics process. The results omnidirectional radiation pattern. The gain of antenna is 2.8dB, and the resonance frequency approximately is 7.6Ghz and 20.2GHz, and 23dB. This fabrication can be compatible with antenna integration and CMOS process. The fabrication process of the antenna is reaseach.

Keywords: miniature, spiral antenna; silicon substrate; IC process

投稿时间: 2011-02-26

[查看pdf文件](#)