



用于射频识别的低旁瓣圆极化微带天线阵

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Low-Sidelobe Microstrip Array with Circular Polarization for Radio Frequency Identification Applications

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摘要

介绍一种工作于2.45 GHz射频识别(RFID)读卡器微带天线阵的设计与测试结果.该天线结构简单,具有低旁瓣与圆极化特性.实测旁瓣电平为-23.2 dB, VSWR ≤ 2 阻抗带宽约130 MHz (2.44~2.58 GHz).这些特性能较好地满足RFID天线的要求.

关键词: [微带天线阵](#); [低旁瓣](#); [圆极化](#); [射频识别读卡器](#)

Abstract:

The design of a microstrip antenna array for 2.45 GHz radio frequency identification (RFID) reader applications is introduced with measured results. The array is of simple structure, low sidelobe level and circular polarization characteristics. Its measured sidelobe level is -23.2 dB, and the measured VSWR ≤ 2 impedance bandwidth is 130 MHz (from 2.44 GHz to 2.58 GHz), making it suitable for RFID applications.

Keywords: [microstrip antenna array](#); [low sidelobe level](#); [circular polarization](#); [radio frequency identification \(RFID\) reader](#)

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