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Abstract

In this paper, a printed Yagi-Uda antenna with an integrated balun is presented for WLAN applications. The planar directive antenna is designed to operate at 2.4 GHz and 5 GHz frequency bands. An integrated balun in the form of microstrip-to-coplanar strips (CPS) transition is used to feed the antenna. The substrate material used is FR4 of dielectric constant 4.4 and thickness 1.6mm. The proposed antenna design presents measured bandwidths (RL_{-10 dB}) of 2.37 – 2.42 GHz and 4.78 – 6.17 GHz for VSWR

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Index Terms

Computer Science

Wireless Communication

Keywords

Printed Yagi Antenna Directive Antenna Integrated Balun Wireless Local Area Network (wlan)