

## CPW-Fed Broadband Circularly Polarized Planar Antenna with Improved Ground

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**Abstract :** A broadband circular polarization (CP) feature is designed for a CPW-fed planar printed monopole antenna. A rectangle patch and an improved ground plane make up the antenna. The antenna's impedance bandwidth can be increased by adding a vertical stub and a horizontal slit in the ground plane. The measured results show that the proposed antenna has a wide 10-dB return loss bandwidth of 70.2% (4.35GHz, 3.7-8.1GHz) centered at 4.2 GHz.

**Keywords :** CPW-fed, circular polarised, FR4 epoxy, slit and stub

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