

ABSTRACT

Microstrip antennas have attractive attributes such as low profile, lightweight, built-in structure and reliable performance. A novel circularly polarized (CP) square slot antenna for covering the universal UHF RFID band is proposed. Circularly Polarized Square slot antenna for covering the universal ultra-high frequency, radio frequency identification band is proposed. The antenna has a dielectric substrate as FR4 material and for feeding, it has a co-planar wave-guide and test its performance in a real-time vector network analyzer. The proposed antenna has a resonant frequency of 1.24 GHz and simulation is done by Keysight Advanced Design System (ADS) software. The dimension of the Circularly Polarized square slot antenna is 116 x 116 x 1.6 mm³.