

Four Slot Microstrip Antennas For Circular Polarization

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The Ultra High Frequency (UHF) band which uses the Radio Frequency Identification (RFID) system has it gained popularity in many applications, as it provides longer readable range and fast reading speed [1]. The commercial use of the UHF RFID system in logistics, and supply chain management has become very popular, which has made compact handheld reader units become more and more important RFID technology uses the short-range wireless communications and information in the device (tag) can be read by using the radio frequency. The reader antenna is one of the important components in the RFID system. Circularly polarized microstrip antennas (CPMAs) can reduce the loss caused by the multipath effects between the reader and the tag antenna. Due to the merits of high data transfer rate and broad readable range, passive RFID systems at the UHF band are preferred in many applications.

The system operates at the bands of 840–955 MHz in Asia-Pacific region, 902–928 MHz in America, and 865–867 MHz in Europe. The main contemplation for the Circularly Polarized (CP) [microstrip antenna](#) design of handheld/movable RFID reader applications is complete compact size of the antenna. The small size of the CPMA can be achieved at the cost of limited gain, narrow 3-dB AR bandwidth and impedance bandwidth.

Compact circularly polarized microstrip antennas (CPMAs) are mostly used in handheld portable devices and in compact portable communication systems. Circular [polarization](#) is the most common polarization types used in modern wireless communication systems. For overall size of the antenna several applications want compact circularly polarized slotted microstrip antenna, such as for mobile wireless, radio-frequency identification (RFID) readers, and...

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