

# Download free Dual band circularly polarized monopole antenna for wlan Copy

a monopole antenna is a class of radio antenna consisting of a straight rod shaped conductor often mounted perpendicularly over some type of conductive surface called a ground plane a compact modified c shaped monopole antenna with broadband circular polarization is proposed fabricated and measured the antenna structure is simple and only consists of combined modified c shaped radiation patch and an improved ground plane with the overall size of 25 25 1 mm 3 this article describe the design and measurement of a broadband circularly polarized cp monopole antenna for millimeter wave short range 5g wireless communication applications this antenna is comprised of a t shaped monopole antenna with an inverted l grounded stub and an asymmetric coplanar wave guide feed abstract the design of a broadband circularly polarized compact monopole antenna is proposed in this

letter by protruding a g shaped parasitic strip into a c shaped monopole antenna structure two orthogonal modes are created with equal amplitude and 90 phase difference for circular polarization abstract the design and implementation of a compact monopole antenna with broadband circular polarization is presented in this letter the proposed antenna consists of a simple c shaped patch and a modified ground plane with the overall size of  $0.33 \lambda \times 0.37 \lambda$  this paper proposes a new monopole antenna design comprises of partial modified ground structure pmgs with semi circle ring shaped printed structure featured a tri band planar monopole antenna with one linearly polarised band two circularly polarised bands and bidirectional radiation patterns is presented in this study the antenna consists of a monopole with seven arms etched on the top side of a fr4 substrate and a slitted ground plane on the bottom side this article proposes a new broadband circularly polarized cp printed monopole antenna pma with unidirectional radiation patterns the simple structure consists of only a circular patch a tuning rectangular patch and an inverted l strip protruded from the signal line of a feeding asymmetric coplanar waveguide cpw a vertically polarized monopole served as the transmitting antenna installed at a distance of  $15 \lambda$  from the helical

array the transmission signal generated by an agilent n9310a frequency generator and amplified by a 2 w hf amplifier was utilized for the tests a broadband circularly polarized cp printed monopole antenna which fed by coplanar waveguide cpw is proposed in the paper the structure of the novel antenna includes a quarter circular disc radiating monopole a coupled circular patch and a bent l shaped microstrip stub line a chifre shaped cp monopole antenna with an asymmetric microstrip feed has been reported the antenna possesses a very simple configuration and is printed on low cost fr 4 substrate a monopole antenna with coplanar waveguide cpw feeding structure is developed for multiple wireless communication system integration by tuning one of the cpw ground plane widths can increase the impedance bandwidth this literature presents a comprehensive technical review of circularly polarized cp antennas for different applications in wireless communication emphasizing on the recent developments in the concerned research authors have proposed a wideband rectangular printed monopole antenna for circular polarization 1 in this paper by changing the shape of the ground plane and the position of the connection of the microstrip line to the patch the further enhancement of the bandwidth of the 3db axial ratio is examined 2 antenna design a

new broadband circular polarization cp monopole antenna with simple structure is proposed the antenna consists of a p shaped monopole and modified ground plane with rectangular stub and results demonstrated that the 10 db impedance bandwidth zbw is 118 5 1 6 6 25 ghz and the 3 db axial ratio bandwidth arbw is 104 4 1 9 6 05 ghz to enhance bandwidth and meet the lightweight compact criteria of high speed aircraft the planar printed monopole antenna integrates parasitic stubs and loop antenna concepts experimental results exhibit excellent isolation between antenna elements with over 15 db segregation and operational spectrum return loss of 27 and 18 at 10 db the wide band circularly polarised cp monopole antenna structure described in this article combines a defective ground plane with an f shaped radiating monopole that is intended for impedance expand in this paper a novel microstrip line fed circularly polarized monopole antenna with steered radiation pattern characteristic is presented if the variations are such that the electric field vector stays parallel to a line in space as the wave travels the wave is said to be linearly polarized and the antenna that transmits such a wave is called a linearly polarized antenna due to the imaging principle the polarization of radiation and radiation patterns of a monopole antenna is the same as that of its

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