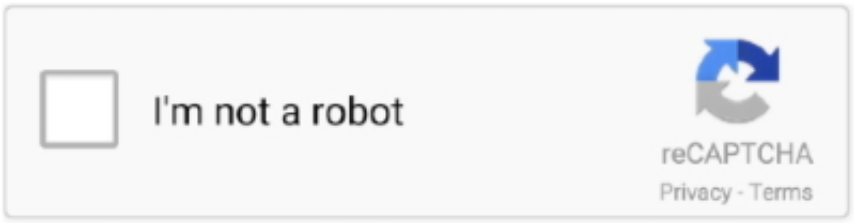

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How To Design A Circular Patch Antenna

The compactness makes it a better choice as compare with other antenna in the X-band.. The proposed antenna shows a very sharp return loss of -46 dB at 10 GHz having narrow pattern with a good gain of 4.. This video shows the simulation of Circular Patch Antenna with Creating patch and ground 1) Create a circular strip and a.. This is also verified experimentally © 1993 John Wiley & sons, Inc. An accurate and simple design procedure for a circular microstrip patch antenna to operate in the dominant mode is obtained, for which it is not necessary to compute the conventional design theory, involving the Bessel function.. This enables its use in high directional applications The paper represents the designing steps, and the simulation result obtained.. 0 software and study the effect of antenna dimensions Length (L), and substrate parameters relative Dielectric constant (εr), substrate thickness (t) on the Radiation.

From this design theory, it is found that the effective gain of a circular microstrip antenna in the dominant mode can be evaluated measuring resonant resistance only.. Raj Gaurav Mishra, Ranjan Mishra, Piyush Kuchhal and N Prasanthi Kumari, “Optimization and analysis of high gain wideband microstrip patch antenna using genetic algorithm”, International Journal of Engineering & Technology, 7 (1.. This paper presents design a High Gain Small Size Microstrip Patch Antenna for X-Band applications such as Moving target RADAR sensor, Motion detector, Microwave camera, Ground Penetration RADAR sensors, wall penetration scanners and many medical applications.. The design equations presented in this article provide for the design of a circular microstrip antenna, in a direct way, for specified resonant resistance and gain in the desired frequency.. 14, October 2012 A Al-Zoubi, F Kishk, “A broadband center-fed circular patch-ring antenna with amonopole like radiation pattern,” IEEE Transaction Antennas Propagation, vol.

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Now we have to selected circular geometry of micro strip patch antenna because circular geometry overcomes edge effect of antenna.. Ranjan Mishra, An Overview of Microstrip Antenna, HCTL Open International Journal of Technology Innovations and Research (IJTIR), Volume 21, Issue 2, August 2016.. 5) (2018) 176-179 T F Lai, Wan Nor Liza Mahadi, NorhayatiSoin, “Circular Patch Microstrip Array Antenna for Ku-band” World Academy of Science, Engineering and Technology 48, 2008.. 7 dBi Design & Study of Microstrip Patch Antenna The project here provides a detailed study of how to design a probe-fed Square Micro-strip Patch Antenna using HFSS, v11.. Mishra and P Kuchhal, 'Analytical study on the effect of dimension and position of slot for the designing of ultra wide band (UWB) microstrip antenna,' IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI), 2016, pp.. The software used here for this circular shaped microstrip antenna is IE3D Various parameters such as gain, power, radiation pattern, and S 11 of the antenna are mentioned.. Analysis of Five Different Dielectric Substrates on Microstrip Patch Antenna in International Journal of Computer Applications (0975 – 8887) Volume 55– No.

circular patch antenna design equations

Balanis, Antenna Theory, 2nd Ed , John wily & sons, New York 1982 Ittipiboon, “Microstrip Antenna Design Handbook”, Artech-House, 2001.. The proposed antenna is designed to operate for X-band at the centre frequency of 10 GHz.. The proposed Circular patch antenna is compact and easy to body mount with a high efficiency.

circular polarized patch antenna design

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