

## **Design Of C Band Microstrip Patch Antenna For Radar**

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### **MICROSTRIP ANTENNA IEEE PAPER 2018**

**Abstract.** This paper presents the design of a broadband microstrip antenna for C-band wireless applications. The proposed design utilizes the gap-coupling technique and partial ground plane in the design to enhance the bandwidth of a T-shaped antenna.

**Design and Simulation of Microstrip patch array antenna ...**  
**Broadband Microstrip Antenna for C-band, X-band, and KU-band Applications. Conference Paper (PDF Available) ...** In this paper, new design of the microstrip patch antenna is presented.

**Design of a C-band High Gain Microstrip Antenna Array for ...**  
This paper has the design of microstrip rectangular patch antenna array that is line fed and has a center frequency of 7.8GHz for C-band Scatterometer and MBI. The design of a single element and a ...

### **Design Of C Band Microstrip**

**Abstract:** This paper presents a low cost C-band microstrip antenna array with high gain, composed of  $2 \times 2$  patches of 14.38mm by 18.42mm each, and compatible with CubeSat standard at 5.8 GHz center frequency. The feeding method is corporate feed network matched to 50  $\Omega$  line by different impedance lines. The patch's Mutual Coupling is

decreased by rotating  $45^\circ$  each patch, obtaining a return ...

*Subarray Design for C-Band Circularly-Polarized Synthetic ...*

*DESIGN AND ANALYSIS OF TRIANGULAR SLOT MICROSTRIP PATCH ANTENNA FOR C BAND APPLICATION* Akila G1 & Mrs. Binisha X.M2 & Mrs. Riyaz Fathima 3H 1PG Scholar, Department Of Electronics and Communication Engineering, PET Engg. College, Vallioor, India 2,3 Assistant Professor, Department Of Electronics and Communication Engg., PET Engg.

*Design of multiband microstrip patch antenna for C and X band*

[21] R. Che, B. Dong, and C. Yu, "Study and design of Ku band direct broadcast satellite microstrip antenna array," Proceedings of ICCTA, 2009. [22] M. Ghiyasvand, H. R. Dalili Oskouei, and K. Forooraghi, "Broadband Proximity Coupled Microstrip Antenna for Direct Broadcast Satellite Reception Using PBG Structures," Microwave Conference ...

*Microstrip, Stripline, CPW, and SIW Design*

In the present design of Ku Band microstrip array antenna, a unique scheme for dc grounding is proposed. A microstrip patch antenna can be modelled as an open circuited transmission line with two slots. The understanding of the physical behaviour of the patch antenna reveals that the slots

*Microstrip Patch Antenna Design for Ku Band Application*

*Material Properties • Relative Permittivity ( $\epsilon_r$ ) or Dielectric Constant ( $D_k$ ) -  $D_k$  is the property of a material which alters the Electric field in the wave. -  $D_k$  is a very important property for microwave PCB design. - Materials used in PCB technology generally have  $D_k$  from 2 to 10 ( $D_k$  is dimensionless).  $D_k = \epsilon' - j\epsilon''$ , where:  $\epsilon'$  = energy stored, and  $\epsilon''$  = energy lost.*

*(PDF) Broadband Microstrip Antenna for C-band, X-band, and ...*

As shown in figure.1 the dimension of the proposed C band microstrip antenna is 40X40mm which is fabricated using copper. The side width of the patch antenna is 1.72mm and it is fed with 50 and feed line is connected to standard connector. The design of the patch antenna is proposed using done by ansoft HFSS software.

*Design of microstrip Hairpin-Resonator filter for C-Band ...*

*Design of C-Band Microstrip Patch Antenna for Radar Applications Using IE3D*

*Microstrip Patch Antenna Array Design for C-Band ...*

*Design and Simulation of Microstrip patch array antenna for C Band Application at IMT (4400-4900 MHz) advanced spectrum with Series feed and parallel feed* Kuldeep Kumar Singh, Dr. S.C. Gupta . Abstract - Micro strip patch array antenna has proved importance of itself in wireless application fields. In current worldwide society, communication

*Design, Fabrication And Analysis of Parallel-Coupled Line ...*

The structure of proposed multiband microstrip patch antenna is shown in Fig. 1, which is designed on Taconic RF35 with dielectric constant of 3.5 and loss tangent of 0.018. The total volume of the proposed antenna is about  $55 \times 40 \times 2.5$  mm<sup>3</sup> and it resonates for 4.30 GHz, 5.51 GHz, 6.42 GHz, 8.55 GHz, 9.55 GHz, 11.47 GHz, and 12.58 GHz.

*Design of C-Band Microstrip Patch Antenna for Radar ...*

Microstrip antenna concept was proposed by Descamp in 1953 [1] but its practical applications were developed by Mun-son [2] and Howel [3] in 1970s. Microstrip antennas became very popular for wide-band [4] or multi-band [5] wireless communication, satellites, radars, cell phones etc. because of their simple and cheap fabrication process [6].

*Design Of C Band Microstrip Patch Antenna For Radar*

*Design of Rectangular microstrip antenna with slots in the ground plane for C to Ku band operation free download ABSTRACT : A Novel design of Rectangular microstrip antenna (RMSA) is designed for multiband operation with slots in the ground plane is presented. The multiband is achieved by embedding four equal slots at optimum place on the ground ...*

*Design & Development of a Ku-Band Microstrip Array Antenna*

microstrip patch elements/antennas. At microwave frequency, the microstrip is often used as a transmission line because of its very good efficiency in transferring energy/microwave signals. In this work, an antenna design is simulated at 4.8 GHz for its working in the C-Band communication services.

*A Broadband Microstrip Patch Antenna for C-Band Wireless ...*

Previously, the design of C-band CP-SAR antenna has been proposed, but neither IBW nor ARBW meets the requirements of the CP-SAR system, which is less than 5% [18]. In this paper, a new design of  $4 \times 4$  broadband circularly polarized microstrip antenna as subarray element for the airborne C-band CP-SAR sensor will be presented.

*Design & Simulation of Microstrip Patch Antenna for C-Band ...*

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*(PDF) Design of microstrip antenna C-band frequency for ...*

*Design of microstrip Hairpin-Resonator filter for C-Band Application . Toulali Islam, Lahsaini Mohammed, Zenkouar Lahbib . Abstract- This paper proposes new development and design of microwave bandpass filter structure based on microstrip hairpin resonators. This filter has an operating frequency about 3.7 GHz.*

*(PDF) Design of C-Band Microstrip Patch Antenna for Radar ... antenna. The objective of this paper is to design an microstrip line fed rectangular microstrip patch antenna which operates in C-band at 5GHz. Therefore, method of moments based IE3D software is used to design a Microstrip Patch Antenna with enhanced gain and bandwidth. IE3D is an integrated full-wave electromagnetic*

*Microstrip patch antenna for C band satellite application and simulation of a conventional parallel-coupled line band pass microstrip filter for C-Band communication. The band pass filter operates at a centre frequency of 6.93 GHz suitable for C-Band communication. A miniature 4th order filter is considered to obtain better selectivity and stop band rejection with a bandwidth of 693 MHz and a*

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