

Dual Band Step Shaped Antenna Array For Wlan And Wimax

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Dual Band Step Shaped Antenna

PRINTED FORK SHAPED DUAL BAND MONOPOLE ...

To achieve the desired dual-band characteristics for Bluetooth and UWB operations, a rectangular monopole is placed in the central portion of U-shaped monopole antenna to resonate over Bluetooth band leading to tuning fork shaped dual band monopole antenna The antenna provides a dual-band operation due to two different resonating elements

Design of Dual-Band Microstrip Antenna with U-shaped slot

dual band of frequencies instead of single band; therefore there is a need to modify the microstrip antenna to operate in dual band In this paper, a U shaped slot microstrip patch antenna with coaxial feeding is designed to operate in dual band for Wireless Local area Network (WLAN) applications

A NEW DUAL-BAND MICROSTRIP ANTENNA WITH U ...

the dual band characteristic in a microstrip antenna is embedding a slot in the patch as the structure proposed in [3] in which the radiating patch includes a pair of step-slots In microstrip antennas, embedded slots can also be used to enhance the impedance bandwidth of a single band antenna A circular arc slot [4] and a U-shaped slot [5] have

A New Design of Monopole Antenna with 3.5/5.5 GHz Dual ...

protruded step-shaped strips By cutting a rectangular slot with the protruded Γ -shaped strip at the feed line, a dual band-notched function is achieved The measured results reveal that the presented dual band-notched antenna offers a very wide bandwidth from 28 to 116 GHz,

A Planar UWB Reconfigurable Face-shaped Monopole ...

respectively In [24], a novel design of dual band-notched monopole antenna with bandwidth enhancement for UWB applications is presented By adding an inverted T-shaped parasitic structure inside the inverted T-shaped slot on the radiating patch, a dual band-notched function is achieved

Also, the dimension of the proposed antenna is 12×18 mm²

A COMPACT HIGH GAIN DUAL-BAND ANTENNA ARRAY ...

Compared to dual-band dipole antenna configurations, the dual-band slot antennas have more complex structures. The dual-band split ring resonating (SRR) antenna [12, 13] and closed ring resonating (CRR) antenna [14, 15] has a very narrow low band and an omnidirectional radiation pattern.

Dual-Band Printed Dipole Antenna with Parasitic Element ...

: Dual-Band Printed Dipole Antenna with Parasitic Element for Compensation of Frequency Space Attenuation dual-band printed dipole with 0, 1, 2 and 3 directors for the two bands 245 and 58 GHz. We note a stable gain for the lower band around 5 dB, a ...

Development and Analysis of a Compact Dual-Band Coplanar ...

backed by a short circuit to a step-shaped ground plane. With the use of the step-shaped ground plane, which is to be placed at the top edge of the system ground plane of a Development and Analysis of a Compact Dual-band Coplanar Antenna.

Design and Analysis of Wideband Patch Antenna for Dual ...

[7] demonstrated a compact CPW-fed monopole antenna with a U-shaped strip and a pair of L-slits ground for WLAN and WiMAX applications. It utilizes a pair of L-shaped defected ground structure and U-shaped parasitic element for achieving dual band operation. Zhang et al [7] presented a miniature triple-band ...

E Shaped Coaxial Feed Microstrip Patch Antenna for WLAN ...

first step a simple rectangular microstrip patch antenna has been taken. Size of the antenna is Fig3. Return loss plot of optimized antenna E-shaped. The radiation pattern can be shown in Fig 5 at the nfigurable Dual Band E-shaped Microstrip Patch Antenna. IEEE Conference on Computer and communicating Engineering, Page(s): 113 -117.

A Compact Key-Shaped Antenna Design for Microwave RFID ...

A Compact Key-Shaped Antenna Design for Microwave RFID Applications. 1YassineGmih, 2Younes El Hachimi, Step 1: Calculation of the Width (W): Fig3. Comparison of simulated return loss S11 for the proposed dual-band antenna using CST and HFSS. A Compact Key-Shaped Antenna Design For Microwave Rfid Applications.

High-Isolation Dual-Polarized Microstrip Antenna via ...

A dual-polarized microstrip patch antenna fed by quasi-cross-shaped slot with the ports isolation higher than 35 dB has been discussed in [18]. The profile increases due to the structure of U-shaped folded two feed lines and the antenna covers the band of 33-39 GHz with the reflection coefficient of -10 dB. It is obvious that the bandwidth

A MONOPOLE MICROSTRIP ANTENNA WITH EN- HANCED ...

monopole microstrip antenna is proposed which offers dual band notch 'L' shaped slot and a twisted 'J' shaped slot in the patch element band rejection centered at 55GHz. Step by step development of the antenna with its analysis in frequency and time domain is presented. The prototype is fabricated and the measured results are

Microstrip-Fed Compact Dual Band Planar Antenna

An internal GSM/DCS antenna backed by a step-shaped ground plane for a PDA Phone was proposed by KL Wong et al [16]. The antenna has two radiating strips designed to operate at about 900 and 1800MHz for GSM/DCS operation, and is backed by a step-shaped ground plane. Zi Dong Liu et al [17] presented a dual frequency planar inverted-F antenna.

4.1 METER AT-A-GLANCE

Viasat's 41 meter Ka-band antenna is ideally suited for worldwide high-performance geostationary Ka-band gateway applications. With decades of experience going into the design, its performance, reliability, and maintainability are exceptional. The shaped Cassegrain antenna with precision reflector

Design of Compact Dual-band and Tri-band Microstrip Patch ...

Design of Compact Dual-band and Tri-band Microstrip Patch Antennas Dhirgham K Naji Keywords Fork-shaped antenna (FA), Microstrip patch antenna (MPA), Multiband antenna 1 Introduction

A Dual-Band Unidirectional Coplanar Antenna for 2.4-5 ...

A dual-band unidirectional antenna has been developed. The dual-band antenna consists of a long dipole for the lower frequency band and two short dipoles for the higher frequency band. All dipoles are printed coplanar on a thin substrate. The printed dipole antenna is excited by a microstrip line.

Design of Compact E-Shaped Slot Multiband Antenna ...

For dual band antenna applications, E-shaped patch structures have been successfully verified as reported in [17, 18]. As a slot, the E-shaped structure has drawn less attention from antenna designers; to name a few [19, 20]. In [19], the E-shaped Step 2: Calculation of Effective Dielectric Coefficient () the effective dielectric constant

DESIGN OF RECTANGULAR MICROSTRIP PATCH ANTENNA ...

Design and simulation of Modified rectangular microstrip patch antenna are done by CST Microwave Studio software. Four stages are presented for the proposed broadband MRMPA design. The first stage is a single mode RMPA and by increasing steps at the corner of the patch antenna a dual band, multiband and broadband are obtained.

Dual-Band Circularly Polarized -Shaped Slotted Patch ...

gular-ring patch antenna with L-shaped feed-line for dual-band CP operation. The dual-band frequency-ratio of the antenna is 1.32 achieved at the end of Step 4, change the initial parameters.