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Journal  
ISSUE 03, MARCH 2015 ISSN 2277-8616  
54 IJSTR©2015 www.ijstr.org Microstrip  
Antenna Anuj Mehta Abstract: This  
article presents an overview of the  
microstrip patch antenna and its design  
techniques. Basically a microstrip patch  
antenna comprises of

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International Journal of Computer  
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Antenna by Introducing Defected Ground  
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Monika Aggarwal

## **Design of Microstrip Patch Antenna by Introducing Defected ...**

In our study, we used the proposed modeling method to optimize the design of a multiband microstrip antenna (MSA) for mobile terminals and obtained good



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optimization results. The optimized antenna can work in the frequency range of 0.69–0.96 GHz and 1.7–2.76 GHz, covering the wireless LTE 700, GSM 850, GSM 900, DCS 1800, PCS1900, UMTS 2100, LTE 2300, and LTE 2500 frequency bands.

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International Journal of Scientific & Engineering Research, ... microstrip antenna add up in phase and produce radiation of the microstrip antenna [7-8].  
2. ... Dimension for single patch is 15.5 mm x 11.5 mm, with inset feed at 4.3 mm; width of transmission line is 3 mm.

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**Review and Analysis of Microstrip  
Patch Array Antenna with ...**

G. A. Deschamps, " Microstrip Microwave Antennas ", presented at Third USAF symposium on Antennas, 1953  
Microstrip Antennas, Chapter 10 in  
Antenna Handbook: Theory Applications and Design Jan 1988

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Type: Double Blind Peer Reviewed  
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Global Journals Inc. (USA) Online ISSN:  
2249-4596 & Print ISSN: 0975-5861. A  
Compact Microstrip Patch Antenna for  
Wireless Communication By  
B.Mazumdar, U.Chakraborty, A.Bhowmik,

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technique dual band microstrip dipole  
antenna is obtained. These antennas are  
designed on a FR-4 substrate on double  
sided PCB with a dielectric constant of

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4.4. These antennas are low cost, easy to design, light weight and easy to convince for mass production. Keywords: dipole antenna, compact antenna, microstrip antenna, resonant antenna. I.

**ISSN: 2319 International Journal of Innovative Research in ...**

Sanjeev Kumar, Ravi Kumar, Rajesh

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Kumar Vishwakarma, Microstrip fed highly compact Bluetooth integrated wideband antenna for wireless application, International Journal of Electronics Letters, 10.1080/21681724.2018.1477183, 7, 2, (166-181), (2018).

## **Design of a microstrip fed printed**

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## **monopole antenna for ...**

Antenna for Wireless Applications,”  
International Journal of Innovation and  
Applied Studies, vol. 3, no. 4, pp.  
953–958, August 2013. [15] Alak  
Majumder, “Design of an H-shaped  
Microstrip Patch Antenna for Bluetooth  
Applications,” International Journal of



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## **Journal** **Rectangular Ring Microstrip Patch Antenna for Ultra-wide ...**

Supports Open Access Journal Aims. The International Journal on Communications Antenna and Propagation (IRECAP) is a peer-reviewed journal that publishes original theoretical and applied papers on all aspects of Communications, Antenna, Propagation and networking

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technologies.. The topics to be covered include but are not limited to:  
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In this paper a conventional microstrip antenna (MSA) has been designed for

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6GHz. The antenna is designed on FR4 with dielectric constant  $\epsilon_r = 4.4$  and with the height of  $h = 1.6\text{mm}$  with the width of  $W = 15.24\text{mm}$  and the length  $L = 11.33\text{mm}$  respectively.

### **Study of Microstrip Antenna Using Various Types of EBG ...**

Ittipiboon, "Microstrip Antenna Design

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Hand Book," Artech House, Norwood, MA, 2001. [2] Comparative Analysis of Exponentially Shaped Microstrip-Fed Planar Monopole Antenna With and Without Notch, International journal of Emerging trends in computing Vol. 2, No.11, November 2011 M. Venkata Narayana<sup>1</sup>, I.Govadhani<sup>2</sup>, K.P.Sai Kumar, K.

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## **Multi-band Ladder-shape Microstrip Patch Antenna**

S.No Dimensions of microstrip patch  
antenna Parameter Symbol

Dimension(mm) 1 Substrate width, W 30

2 Substrate length, L 35 3 Patch width,

Wp 15 4 Patch length, Lp 14.5 5 Feedline

width, Wf 2.85 6 Feedline length, Lf 13.5

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7 Ground plane length,  $L_g = 12.5 L_B$ .  
Microstrip patch Antenna for WIMAX rejection

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Suppressing higher-order modes up to sixth harmonics of the fundamental working frequency in a single-layer

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microstrip line-fed patch antenna has been successfully demonstrated. Higher-order modes of the antenna are suppressed by simultaneously employing a circular head open stub connected to the feed line and a novel defected ground structure (DGS) beneath the feed line.

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## **Ultrawideband Harmonic Suppression in Microstrip Patch ...**

Microstrip Antennas International Journal  
of Antennas and Propagation. ... (15) It is  
therefore concluded that the modal  $Q$   
eig equals the  $Q_X$  by [20, 21]) that in  
resonance it also equals the radiation  $Q$   
... International Journal of Antennas and  
Propagation 3 P3 (x3, y3) P1 (x x 1, y y



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1) P2 P0 P0

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A design of annular ring microstrip antenna with finite ground structure is proposed in this paper. The proposed geometry offers impedance bandwidth of 2.362 GHz and has stable radiation

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patterns for all resonant frequencies in  
the operational band.

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antenna for multi band application,

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## **15 ijaers sep 2015 18 reconfigurable stacked microstrip ...**

The effective length of the microstrip patch antenna  $L_{eff}$  now becomes: (3)  $L_{eff} = L + 2 \Delta L$ , For a rectangular microstrip patch antenna, the resonance

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frequency for the fundamental TM<sub>10</sub> mode is given by : (4)  $f_0 = \frac{c}{2L_{eff}\sqrt{\epsilon_{eff}}}$ , for efficient radiation, the effective width of the microstrip patch antenna  $W_{eff}$  can be expressed as : (5)  $W_{eff} = \frac{c}{2f_0}(\epsilon_r + 1) / 2$ , where  $c$  is the ...

### **Optical microstrip patch antennas design and analysis ...**

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ISSUE 01, JANUARY 2020 ISSN

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[www.ijstr.org](http://www.ijstr.org) equalizes its zone with that of the circular Microstrip antenna. A comparative methodology has been adjusted in our work to compute the successful span. In this procedure, the

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octagonal

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International Journal of Engineering  
Research and General Science Volume  
2, Issue 4, ... Microstrip Yagi-Uda  
antenna, Dielectric constant, Return

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loss, Back lobe radiations. ... on the order of 5% to more than 15% [7]. This antenna has found applications from short waves to microwave

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