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## ~~Penta-band microstrip patch antenna with small frequency ...~~

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In this paper, by using variations of slots, a face-shape microstrip antenna derive from basic rectangular microstrip antenna is proposed for dual polarized multiband response. Slot position and dimension tunes higher order modes  $TM_{02}$  and  $TM_{12}$  with respect to fundamental mode  $TM_{10}$  resulting into dual polarized multiband response with impedance bandwidth of 1.5% to 2% at each band.

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A dual-polarized dual-layer wideband microstrip antenna is presented. Dual orthogonal linear polarization and enhanced isolation between two ports are achieved by employing two radiating patches perpendicular to each other and printed on two separate substrates.

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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

## ~~(PDF) Microstrip Antenna - ResearchGate~~

The measured results show that the dual-feed microstrip grid array antenna has achieved excellent performances: 4.85% impedance bandwidth, 9.03% gain bandwidth, and 20.6-dBi gain at 24.15 GHz as a balanced antenna and 6.05% impedance bandwidth, 7.74% gain bandwidth, and 17.8-dBi gain at 24.15 GHz as an unbalanced antenna.

## ~~A dual-feed microstrip grid array antenna for balanced or ...~~

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In the paper 12mm by 15.6 mm rectangular patch antenna carved on FR4 substrate is presented. Both the simulated and the measured result show the operation of the antenna in the entire UWB range.

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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 1) P2 P0 P0

~~International Journal of Antennas and Propagation~~

In this paper a conventional microstrip antenna (MSA) has been designed for 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 ...~~

Anitha V. R and Narayana R. S., ..., Design of an 8X1 square Microstrip patch Antenna Array, International journal of Electronic Engineering research 1 (1): 71-77, 2009. Mohamed .S and Noha .H., ..., A novel internal Dual-polarized EBG Antenna for indoor reception of UHF Terrestrial Digital TV Broadcasting, International journal of microwave science and technology 2012:1155-2012 ...

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INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME 9,  
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1.b. Microstrip fed slot octagonal antenna Fig. 1.c. Microstrip fed octagonal ring slot  
antenna Fig. 1.d. CPW fed combined octagonal antenna

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5G Communication, Rectangular Patch, Microstrip, Array . ABSTRACT. A simple  
rectangular microstrip feed antenna is proposed for 5G communication. The  
proposed structure has 7.9 x 14.71 x 1.6 mm dimension and the substrate used in  
the design is FR-4. The antenna has the operating band from 27.67 GHz to 28.31  
GHz band.

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Microstrip Patch Antenna for Wireless Communication By B.Mazumdar,  
U.Chakraborty, A.Bhowmik, S.K.Chowdhury & A.K.Bhattacharjee . JIS College of  
Engineering

~~A Compact Microstrip Patch Antenna for Wireless Communication~~

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[1] M. R. Bhalla and A. V. Bhalla, "Generations of Mobile Wireless Technology: A Survey", International Journal of Computer Applications vol. 5, no, 4,, pp. 26-32, 2010. [2] S. Ohmori, Y. Yamao, and N. Nakajima, "The Future Generations of Mobile Communications Based on Broadband Access Technologies", IEEE Communication Magazine vol. 38, no, 12, pp. 134-142, 2010.

~~Metamaterial superstrate microstrip patch antenna for 5G ...~~

A compact, proximity feed fractal slotted microstrip antenna for wireless local area network (WLAN) applications has been designed. The proposed 3rd iteration reduces antenna size by as compared to rectangular conventional antenna and by introducing H shape DGS, the size of an antenna is further reduced by.

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