Compact Wideband Dual Polarized Microstrip Patch Antenna

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(PDF) Compact wideband dual-polarized microstrip patch antenna
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Design of a compact wideband circularly polarized ...
In this paper, a novel wideband circularly polarized (CP) millimeter wave (mmWave) microstrip antenna is presented. The proposed antenna consists of a central patch and a microstrip line radiator. The CP radiation is achieved by loading a rectangular slot on the ground plane. To improve the 3-dB axial ratio bandwidth (ARBW), two symmetric parasitic rectangular patches paralleled to a central ...

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Compact Single-/Dual-Polarized Filtering Dielectric...

Abstract: A low-profile, wide-band antenna array with dual-linear polarized radiation is presented; this is an extension of previous work conducted by authors on wide-band tapered-slot arrays. The array consists of 2 inter-woven tapered slot arrays fed by planar microstrip power dividers. The interwoven arrays are orthogonal to each other, to enable dual-linear polarized radiation.

Compact Wideband array with dual-polarization - IEEE...

Compact Wideband Dual-Polarized Microstrip Patch Antenna K. Rambabu*, M. Alam, J. Bornemann and M. A. Stuchly Department of Electrical and Computer Engineering University of Victoria, Victoria, B.C., Canada V8W 3P6 I. INTRODUCTION Bandwidth enhancement by multiple resonances is a widely used technique for microstrip patch antennas.

A Compact Wideband Circularly Polarized Patch Antenna with... 

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COMPACT AND WIDEBAND DUAL-POLARIZED ANTENNA WITH HIGH...

A Compact and Wideband Circularly Polarized Rectenna with High E–ciency at X-Band Jinwoo Shin1, Mihui Seo1, Junho Choi1, Joonho So1, and Changyul Cheon2, * Abstract|A new design for a compact and wideband circularly-polarized rectenna with high e–ciency operating at X-band is proposed. A dual-slot coupled antenna excited by an H-shaped slot...

A Compact and Wideband Circularly Polarized Rectenna with... 

Design of Compact, Wideband Dual-Polarized Multi-Dipole Antenna for 2G/3G/LTE Base Station Applications Zhaoyang Tang*, Yapeng Li, Zhipeng Zhao, and Yingzeng Yin Abstract—in this paper, a wideband dual-polarized multi-dipole antenna with a compact radiator size is developed for 2G/3G/LTE base station applications.
A novel compact dual-polarized antenna is proposed. The antenna has a 1.43% impedance bandwidth which is from 1801 MHz to 1827 MHz for return loss larger than 10 dB. The isolation between the two ports is above 28 dB in the bandwidth, and the gain is 6.6 dBi. The proposed antenna not only consists of a full-planar structure, but also is easy to be fabricated for its simple structure.

A Novel Compact Dual-Polarized Antenna

Abstract: An aperture-coupled dual-polarized wideband microstrip antenna with high port-to-port isolation in C-Band is presented in this paper. The proposed antenna contains reflector, substrate, patch and director. By means of four shorting pins the bandwidth increases noticeably.

Dual-polarized aperture-coupled wideband microstrip patch ...

A compact three-dimensional (3D) circularly polarized (CP) microstrip antenna is presented in this paper. The antenna adopts three low-cost printed circuit boards to form an integrated and closed 3D structure, and the radiation patch and the feed patches are etched on the surface of that.

Low-cost and compact 3D circularly polarized Microstrip ...

Abstract: A wideband differentially fed dual-polarized antenna with wideband harmonic suppression is presented. The radiating structure is composed of open slots, stair-shaped strips, and a square patch. Eight open slots are etched on the four corners of the square patch to realize symmetrical radiation and low cross-polarization for orthogonal polarizations.