

Title (en)
MICROSTRIP ANTENNA

Title (de)
MIKROSTREIFENANTENNE

Title (fr)
ANTENNE MICRORUBAN

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Abstract (en)
Embodiments of the present invention provide a microstrip antenna, which includes: four layers of dielectric slabs disposed in parallel, where a first microstrip patch is disposed at a central position of an upper surface of a first layer dielectric slab; a second microstrip patch is disposed at a central position of an upper surface of a second layer dielectric slab; a first ground layer is disposed on an upper surface of a third layer dielectric slab, a coupling aperture is opened at a central position of the first ground layer, a central conductor is disposed at a central position of a lower surface of the third layer dielectric slab; and a second ground layer is disposed on a lower surface of a fourth layer dielectric slab. The third layer dielectric slab and the fourth layer dielectric slab are of asymmetric dielectrics, so that an electric field above the central conductor is greater than an electric field below. The microstrip antenna provided in the embodiments of the present invention improves energy coupling efficiency, ensures bandwidth of the antenna, and reduces backward radiation of the microstrip antenna, thereby improving the F/B of the microstrip antenna. Moreover, the overall size of the microstrip antenna is greatly reduced, which is beneficial to the transmission of the antenna and the integration of receiving circuits.

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