

Title (en)
UNIPLANAR DUAL STRIP ANTENNA

Title (de)
UNIPLANARE ANTENNE MIT ZWEI STREIFEN

Title (fr)
ANTENNE MONOPLAN A DEUX BANDES

Publication
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Application
EP 99908248 A 19990219

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Abstract (en)
[origin: WO9943037A2] A uniplanar dual strip antenna (400) that has a two-dimensional structure. The antenna is comprised of a first and a second metallic strip (404, 408), each printed or etched on a thin planar substrate (412). The first and second strips (404, 408) are separated by a predetermined gap (T) and are used as conductors of a two-wire transmission line. A coplanar waveguide (416, 1520) is coupled to the uniplanar dual strip antenna (400). The coplanar waveguide (416, 1520) is constructed by printing or etching metal on the substrate. The positive terminal (420, 1522) of the waveguide is electrically connected to the first strip. The negative terminal (424, 428) of the waveguide is electrically connected to both the first and second strips. The uniplanar dual strip antenna (400) according to the present invention provides an increase in bandwidth over typical quarter wavelength or half wavelength patch antennas. Experimental results have shown that the uniplanar dual strip antenna (400) has a bandwidth of approximately 8 - 20 % that is extremely desirable for PCs and cellular phones.

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