

Title (en)
WIDE BAND PLANAR RADIATOR

Title (de)
BREITBAND-PLANARSTRAHLER

Title (fr)
RADIATEUR PLANE A LARGE BAUDE

Publication
EP 1104587 B1 20030820 (DE)

Application
EP 98917080 A 19980325

Priority
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• EP 9801757 W 19980325

Abstract (en)
[origin: US6456241B1] The present radiator pertains to a planar array antenna for sending or receiving linear polarized waves, with two radiator levels each comprising radiator elements mounted in lines and columns, while the elements of each radiator level are coupled on a central point so as to be equal in phase and amplitude. Both radiator levels receive and transmit mutually perpendicular polarized waves, and each radiator element has shades (6) and a linear excited stripline (16, 161, 16a, 16b). Said striplines (16, 161, 16a, 16b) are linked in pairs to the branch ends (15, 31) of the coupling networks (1, 2), and the striplines (16, 161, 16a, 16b) of each pair are mounted on the axis or arranged in an axially parallel configuration; the free ends of both striplines (15, 161, 16a, 16b) are connected through at least one connection line (32, 33, 34, 36) to a branch end (15, 31), and a 180° phase difference between both radiator elements (6, 16) is obtained by using at least one connection line (32, 33, 34) of a stripline (16, 161, 16a, 16b).

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IPC 8 full level
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