

Title (en)

MICROSTRIP LINE/WAVEGUIDE TRANSITION.

Title (de)

MIKROSTREIFENLEITER/WELLENLEITER ÜBERGANG.

Title (fr)

TRANSITION LIGNE MICRORUBAN/GUIDE D'ONDES.

Publication

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Application

EP 92910228 A 19920415

Priority

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- FR 9104773 A 19910416

Abstract (en)

[origin: WO9219020A1] A microstrip line/waveguide transition is described, particularly between an antenna (1) such as a plate antenna having radiating elements (3) and supply lines (4) printed on one side of a substrate (2), and a waveguide or cavity resonator (12) with a rectangular cross-section. The end wall of the waveguide or cavity (12) lies in a plane which is parallel to the plane containing the radiating elements (3) of the antenna (1) and their supply lines (4). The transition includes a conductor having a first end galvanically contacting the main supply point A of the antenna (1) and running through the thickness of the substrate (2) of the antenna (1) as far as the waveguide or cavity (12) via a hole (9) in the end wall thereof. The second end of the conductor is in galvanic contact with a broad inner side wall of the waveguide or cavity (12) substantially at the centre thereof transversely, and at a distance from the end wall approximately one quarter of the length of the wave which is guided in said waveguide or cavity (12). The plane containing the conductor is substantially perpendicular to the broad side wall (12") of the waveguide or cavity (12).

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