

Title (en)
WAVEGUIDE STRUCTURE

Title (de)
WELLENLEITERSTRUKTUR

Title (fr)
STRUCTURE A GUIDES D'ONDES

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Application
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Abstract (en)
[origin: WO2005099042A1] The invention relates to a planar waveguide structure for creating a phase gradient between the input signals of an array of antenna elements, said waveguide structure requiring a relatively small amount of space and permitting beam deflection with relatively small losses. The waveguide structure (10) is configured on a dielectric microwave substrate, both sides of which are provided with at least one conductive layer. At least one of the two conductive layers is structured and forms the signal side of the waveguide structure (10), whilst the other conductive layer acts as the ground. The waveguide structure (10) comprises at least one parallel plate line (11) comprising beam ports (12) for supplying the signals or for tapping the signals. According to the invention, said parallel plate line (11) comprises a curved reflector contour (20) and thus acts as a signal reflector.

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