

Title (en)
WAVEGUIDE POLARISATION ROTATOR

Title (de)
HOHLLEITER-POLARISATIONSDREHER

Title (fr)
ROTATEUR A POLARISATION DE GUIDE D'ONDES

Publication
EP 1181735 B1 20050713 (EN)

Application
EP 00931378 A 20000517

Priority
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Abstract (en)
[origin: WO0070704A1] A waveguide rotator is described for use with an LNB for use with a dual polarisation waveguide probe system in which the waveguide has an internal structure which protrudes into the waveguide such that a first orthogonal component of the incident polarised signal propagates to the end of the waveguide and is reflected therefrom and the second orthogonally polarised component is cut-off by the protruding structure which narrows the waveguide, at a distance from a short circuit at the end of the waveguide, and is reflected substantially at the cut-off point. At some predetermined distance from the reflecting means and the cut-off point, the first component and the second component are recombined such that the polarisation of the recombined structure is rotated 90 DEG from the incident polarisation.

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