Title (en)

MICROWAVE TRANSMIT/RECEIVE ANTENNA FEED

Title (de)

SPEISUNG EINER ANTENNE ZUM SENDEN UND EMPFANGEN VON MIKROWELLEN

Title (fr)

SOURCE PRIMAIRE D'ANTENNE DE TRANSMISSION/RÉCEPTION À MICRO-ONDES

Publication

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Application

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Abstract (en)

[origin: WO2008123836A1] The present microwave transmit/receive antenna feed of a microwave communication system for transmitting and/or receiving orthogonal components of a linearly polarized microwave radio signal, enabling reception in one or two frequency ranges, reception and transmission in two frequency ranges, or transmission in one or two frequency ranges, has a waveguide of a circular or rectangular cross-section and is characterized in that there is at least one plane with a recess (6) fashioned on the lateral side of the body (5) of the feed (1), into which recess (6) at least one electronic circuitry (14) is placed and fixed. There is at least one bore through the plane into the waveguide (10, 11), wherein a probe (12, 13) is inserted, protruding into the waveguide (10, 11) and outwards, and is electrically and mechanically coupled to the electronic circuitry (14). The configuration according to the invention allows antenna feeds of exceptional compactness, reliability and simplicity to be manufactured.

IPC 8 full level

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