

Title (en)

POWER DIVIDER FOR ANTENNA COMPRISING FOUR IDENTICAL ORTHOMODE TRANSDUCERS

Title (de)

LEISTUNGSVERTEILER FÜR ANTENNE, DER VIER IDENTISCHE ORTHOMODE TRANSDUCER UMFASST

Title (fr)

RÉPARTITEUR DE PUISSANCE POUR ANTENNE COMPORTANT QUATRE TRANSDUCTEURS ORTHOMODES IDENTIQUES

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Application

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Priority

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Abstract (en)

[origin: CA3017113A1] The general field of the invention is that of compact bipolarization power dividers for a radiofrequency power source. The divider according to the invention comprises: " four identical orthomode transducers (10), eight identical waveguides (15), each waveguide comprising two bends (16, 17), four identical T-shaped junctions (20), four identical twists (30) and two power distributors (41, 42); " the four orthomode transducers being of parallelepipedal shape with a square base, each transducer comprising, on each of two adjacent lateral faces, a waveguide connected to the lower face of the transducer; " the four transducers being positioned so as to form a square, each transducer being connected to two junctions that are perpendicular to one another, the set of four junctions forming a Greek cross; " each pair of junctions that are situated in one and the same plane being connected, by way of two twists, to the two outputs of a power distributor comprising a single input.

IPC 8 full level

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