

Title (en)

Coplanar waveguide with low wave impedance.

Title (de)

Koplanarer Wellenleiter mit geringem Wellenwiderstand.

Title (fr)

Ligne coplanaire à impédance caractéristique basse.

Publication

**EP 0584650 A1 19940302 (DE)**

Application

**EP 93112861 A 19930811**

Priority

DE 4228349 A 19920826

Abstract (en)

The invention relates to a coplanar waveguide which is suitable for MMIC. In order to achieve characteristic impedances which are as low as possible, two identical coplanar lines are connected in parallel. Air-bridge interfaces are incorporated at the branches of the parallel-connected coplanar lines. The electrical behaviour of a 30 OMEGA line is achieved by connecting, for example, two identical 60 OMEGA lines in parallel, using CPW technology.

Abstract (de)

Die Erfindung betrifft einen koplanaren Wellenleiter der für MMIC geeignet ist. Um möglichst geringe Wellenwiderstände zu erreichen, werden zwei identische Koplanarleitungen parallel geschaltet. An den Verzweigungen der parallelgeschalteten Koplanarleitungen werden Luftbrückenübergänge angebracht. Durch Parallelschaltung von z.B. zwei identischen 60Ω-Leitungen in CPW-Technik wird das elektrische Verhalten einer 30Ω-Leitung realisiert.

IPC 1-7

**H01P 3/00**

IPC 8 full level

**H01P 3/00** (2006.01)

CPC (source: EP)

**H01P 3/003** (2013.01)

Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 12, no. 261 (E - 636) 22 July 1988 (1988-07-22)

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