

Title (en)

Ridge waveguide-to-microstrip line transition for high frequency amplifier.

Title (de)

Übergangsstück zwischen einem Rippenhohlleiter und einer Mikrostreifenleitung für einen Hochfrequenzverstärker.

Title (fr)

Transition entre un guide à redan et une ligne à microbande pour un amplificateur haute fréquence.

Publication

**EP 0074613 A1 19830323 (EN)**

Application

**EP 82108267 A 19820908**

Priority

JP 14412381 A 19810911

Abstract (en)

The ridge waveguide-to-microstrip line transition for an amplifier (4) connects a microstrip circuit (30) with a ridge waveguide (22) having a waveguide body (22 min ) and a ridge (22 sec ). This transition has a simple construction and comprises bias supply means for supplying the amplifier with a d.c. bias voltage, and a thin layer (26) of an insulating means interposed between said waveguide body (22 min ) and the ridge (22) to block the supply of said d.c. bias voltage to said waveguide body (22 min ). The ridge (22 sec ) may be provided with means (23 to 25) for connecting it with said bias supply means, said connecting means (23 to 25) extending throughout said insulating means (26) to project from said waveguide body (22 min ).

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

[X] 1981 IEEE MTT-S INTERNATIONAL MICROWAVE SYMPOSIUM DIGEST, June 15-19, 1981, IEEE, New York (US)

Cited by

FR3111478A1; EP0886337A3; EP0730165A3; EP0169048A3; EP2500978A1; US10950920B2; WO2018028762A1; WO2012123473A1; WO8503170A1; WO2021250117A1

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