

Title (en)

Guide-microstrip transition integrating a polarization filter in hermetic active modules with high packing and associated modules.

Title (de)

Hohlleiter-Mikrostreifenleiterübergang mit integrierter Polarisationsweiche in hermetischen aktiven Modulen mit hoher Packungsdichte und assoziierte Module.

Title (fr)

Transition guide d'ondes-ligne à microruban incorporant un filtre de polarisation dans des modules hermétiques actifs à hautes densités et modules associés.

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Application

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Priority

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Abstract (en)

A guide-microstrip transition including a decoupling filter on the power supply is described. The transition is used in hermetic active microwave modules (SSPA) with high packing. It comprises a glass bead coupling a microstrip of a MIC to a probe functioning as an antenna in a resonant cavity communicating with a wave guide. The probe also comprises a cylindrical conductor with very small diameter and electrical length equal to one-fourth wave length at a frequency of 20GHz connected to the centre of the armature of a discoid capacitor acting as a short-circuit for the RF. A connector is also connected to the centre of said armature and to a battery. The connector and the cylindrical conductor are aligned on the same axis of the glass bead. There is also described a triple amplification module obtained by using said transitions. <IMAGE>

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