

Title (en)

Cavity resonator HF-power distributor network

Title (de)

Hohlraumresonator HF-Leistung Verteilnetzwerk

Title (fr)

Réseau de répartition de puissance HF à résonateur d'espace creux

Publication

**EP 2211420 A1 20100728 (DE)**

Application

**EP 10151262 A 20100121**

Priority

DE 102009005502 A 20090121

Abstract (en)

The network (10a) has a cavity resonator (12a) that is rectangular, round, oval or spherical in shape. The height of the resonator is in the range of 0.5-2 mm. The resonator is filled with gas such as air. The resonator is filled with dielectric such as PVC or alumina. The resonator has a dielectric substrate and an external wall that is formed by a chain of vias. An input coupler (18a) is arranged between lines on a microwave substrate (14a) and the resonator. The network is operable as a line-distributed network or a line-collecting network in a high frequency range of 20-150 Giga Hertz. An independent claim is also included for an amplifier comprising an accumulative network.

Abstract (de)

Ein Netzwerk zur Verteilung oder Sammlung hochfrequenter elektromagnetischer Strahlung zwischen mindestens einer Einkoppeleinheit (18) und mindestens einer Auskoppeleinheit (20) ist als Hohlraumresonator (12) ausgebildet. Dadurch ergibt sich eine baulich sehr einfache Struktur, die zudem sehr geringe Verluste aufweist.

IPC 8 full level

**H01P 5/12** (2006.01); **H01Q 21/00** (2006.01)

CPC (source: EP)

**H01P 5/12** (2013.01); **H01Q 21/0043** (2013.01); **H01Q 21/065** (2013.01)

Citation (search report)

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DOCDB simple family (publication)

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