

Title (en)

Distributed resistances for high-power loads in the microwave range.

Title (de)

Verteilte Widerstände für Hochleistungslasten im Mikrowellenbereich.

Title (fr)

Résistances en constantes reparties pour charges à forte dissipation en hyperfréquence.

Publication

EP 0092137 A1 19831026 (FR)

Application

EP 83103511 A 19830412

Priority

FR 8206559 A 19820416

Abstract (en)

[origin: US4456894A] Conventional attenuators and matched loads for dissipating power at hyperfrequencies are uniform structures giving constant attenuation per unit length. This results in most power being dissipated at an input end. The present invention increases the maximum total power that such a resistance can dissipate by providing a non-uniform structure in which dissipation per unit length increases when going away from an input end, in such a manner that power is dissipated in a substantially uniform manner throughout the structure. A series resistance (3) between two parallel resistances (4 and 5) are in the shape of a sector of a circle.

Abstract (fr)

Les résistances en couches résistives série R1 et parallèle R2 en forme de secteurs de cercle (3, 4, 5) sont telles que le coefficient d'atténuation R1/R2 est progressivement croissant à partir de l'entrée (E) de façon à créer une dissipation uniforme. Applications: Atténuateurs et charges en hyperfréquence.

IPC 1-7

H01P 1/26; **H01P 1/22**

IPC 8 full level

H01C 7/00 (2006.01); **H01C 13/00** (2006.01); **H01P 1/22** (2006.01); **H01P 1/26** (2006.01)

CPC (source: EP US)

H01P 1/227 (2013.01 - EP US); **H01P 1/268** (2013.01 - EP US)

Citation (search report)

- [A] US 4310812 A 19820112 - DEBLOOIS ROGER C
- [A] EP 0044758 A1 19820127 - THOMSON CSF [FR]
- [A] EP 0040567 A1 19811125 - THOMSON CSF [FR]
- [A] FR 2286548 A1 19760423 - BUNKER RAMO [US]
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EP 0092137 A1 19831026; **EP 0092137 B1 19870401**; CA 1185667 A 19850416; DE 3370723 D1 19870507; FR 2525383 A1 19831021; FR 2525383 B1 19841116; JP S58188901 A 19831104; JP S6353722 B2 19881025; US 4456894 A 19840626

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