

Title (en)

Small-dimensioned microwave filter with linear resonators.

Title (de)

Kleindimensionierter Mikrowellenfilter mit linearen Resonatoren.

Title (fr)

Filtre hyperfréquence de petites dimensions à résonateurs linéaires.

Publication

**EP 0071508 A1 19830209 (FR)**

Application

**EP 82401307 A 19820709**

Priority

FR 8114425 A 19810724

Abstract (en)

1. A microwave filter comprising n linear hair-pin resonators (H'1 -H'5 ), n being a positive integer, characterized in that the length of each resonator is smaller than  $\lambda/2$ ,  $\lambda$  being the wavelength corresponding to the center frequency of the filter band, and that a capacitor (C1 -C2 ) is branched between the open ends of each resonator, the capacitance of said capacitor being such that a resonance frequency equal to said center frequency of the filter band is obtained in the resonant circuit constituted by said capacitor and the associated resonator.

Abstract (fr)

Le filtre comporte, branchés sur ses résonateurs linéaires en U (H'1 à H'5), des condensateurs (C1 à C5) qui abaissent la fréquence moyenne de travail du filtre en dessous de la valeur correspondant, dans le filtre, à une longueur d'onde  $\lambda$  égale au double de la longueur des résonateurs. Il est ainsi possible de réaliser un filtre de petites dimensions et, en utilisant des condensateurs variables, de modifier l'accord du filtre. Application aux filtres passe-bande et coupe-bande.

IPC 1-7

**H01P 1/203**

IPC 8 full level

**H01P 1/203** (2006.01); **H01P 1/212** (2006.01); **H01P 7/08** (2006.01)

CPC (source: EP)

**H01P 1/20372** (2013.01)

Citation (search report)

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