

Title (en)

Microstrip fashion microwave rejection filter.

Title (de)

Mikrowellensperrfilter in Mikrostreifenausführung.

Title (fr)

Filtre coupe-bande hyperfréquence en technologie micro-bande.

Publication

EP 0337825 B1 19931118 (FR)

Application

EP 89400632 A 19890307

Priority

FR 8803187 A 19880311

Abstract (en)

[origin: EP0337825A1] This microband technology microwave band-rejection filter is of the type with coupled lines, that is to say containing a transmission line in the form of a microstrip (1) associated with at least one filtering cell comprising a microstrip segment (4) arranged parallel to the transmission line and remote from it, this microstrip segment having one of its ends open-circuited and the other connected to the earth potential. Connection to the earth potential is effected for each cell with interposition of a tunable LC resonant circuit (5, 6). Advantageously, the capacitive element of the tunable LC resonant circuit comprises a varactor (6) whose anode is brought to an adjustable DC potential (-V), so that control of this DC potential allows variation in the central rejection frequency of the band-rejection filter, and the inductive element of the tunable LC resonant circuit is produced in the form of a wire (5) connecting the microstrip segment (4) to the varactor (6), the latter being arranged on the same dielectric substrate (7) as this microstrip segment. <IMAGE>

IPC 1-7

H01P 1/203

IPC 8 full level

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CPC (source: EP)

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Cited by

JP2008078734A; EP0454992A3; FR2678450A1; GB2263583A; GB2263583B; US5448210A; WO9300718A1

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