

Title (en)

Symmetrical coupled line coplanar waveguide filter.

Title (de)

Filter bestehend aus symmetrischen gekoppelten Kopplanarleitungen.

Title (fr)

Filtre à lignes coplanaires, couplées et symétriques.

Publication

EP 0068345 A1 19830105 (EN)

Application

EP 82105340 A 19820618

Priority

US 27746681 A 19810625

Abstract (en)

A coplanar waveguide filter is disclosed including a pair of grounded conductors (36) disposed on a surface (34) of a dielectric substrate equidistant from a transmission center line (42), and first (30) and second (32) conductors on said substrate surface (34) between said grounded conductors (36) and symmetrically disposed with respect to the transmission center line (42) by virtue of one conductor (32) being bifurcated, and the other not. The structure produces coupled sections of coplanar waveguide transmission lines which are both physically and electrically symmetrical. Solutions for the even and odd-mode impedance are given, allowing synthesis of a wide range of filter functions.

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H01P 1/203

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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