

Title (en)

Microwave bandpass filter including dielectric resonators.

Title (de)

Mikrowellen-Bandpassfilter mit dielektrischen Resonatoren.

Title (fr)

Filtre passe-bande à micro-ondes comportant des résonateurs diélectriques.

Publication

**EP 0197653 A2 19861015 (EN)**

Application

**EP 86301617 A 19860306**

Priority

CA 478332 A 19850403

Abstract (en)

A dielectric resonator microwave bandpass filter includes a printed circuit board (40) supported within a cut-off waveguide (10, 12), with dielectric resonators (44) and coupling loops on an upper surface of the board and a well (42) beneath the board so that the resonators are well spaced from ground planes. Tuning screws (66) beneath the resonators, and coupling adjustment screws above the board adjacent to the coupling loops and between adjacent resonators, provide for adjustments to provide desired filter characteristics within a wide range. Isolators (30) within the waveguide have ports coupled to the resonators via micro-strip transmission lines comprising conductive tracks on the board and ports coupled to coaxial connectors (28) in end walls of the waveguide. The waveguide is formed from a cast body (10) and a flat lid (12).

IPC 1-7

**H01P 1/208**; **H01P 1/219**

IPC 8 full level

**H01P 1/20** (2006.01); **H01P 1/00** (2006.01); **H01P 1/208** (2006.01); **H01P 1/212** (2006.01); **H01P 1/219** (2006.01); **H01P 7/10** (2006.01)

CPC (source: EP)

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Cited by

DE10348909A1; EP1079457A3; EP2919317A4; EP0235123A4; US6005452A; GB2263363A; GB2263363B; US6529094B1; US9941564B2; US7453336B2; US7271679B2; WO9828813A3; WO2007005580A1; WO2023138088A1

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