

Title (en)
MICROWAVE BANDPASS FILTER INCLUDING DIELECTRIC RESONATORS

Publication
EP 0197653 B1 19911121 (EN)

Application
EP 86301617 A 19860306

Priority
CA 478332 A 19850403

Abstract (en)
[origin: EP0197653A2] 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 1/00 (2006.01); **H01P 1/20** (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)
H01P 1/2084 (2013.01); **H01P 1/219** (2013.01)

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

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