

Title (en)
A dielectric resonator filter.

Title (de)
Dielektrisches Resonatorfilter.

Title (fr)
Filtre à résonateur diélectrique.

Publication
EP 0678928 A2 19951025 (EN)

Application
EP 95302703 A 19950421

Priority
GB 9407986 A 19940422

Abstract (en)
A dielectric resonator filter is provided which includes at least one microwave resonator having a body member with a cylindrical conductive cavity of uniform diameter formed therein, symmetrically disposed about a longitudinal axis, the cavity being divided into two sections, of unequal lengths, by an integral inwardly projecting flange; a cylindrical dielectric resonator having a coefficient of thermal expansion to match that of the body member, the longitudinal axis of the resonator being co-axial with the longitudinal axis of the cavity; two cylindrical support members for supporting the dielectric resonator within the longer section of the cavity, the support members being of quartz and located one on each side of the dielectric resonator; and securing means for securing the two support members, with the dielectric resonator therebetween, within the cavity, one of the support members being in an abutting relationship with a surface of the inwardly projecting flange. <IMAGE>

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H01P 7/10

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