

Title (en)
HIGH FREQUENCY FILTER

Title (de)
HOCHFREQUENZFILTER

Title (fr)
FILTRE À HAUTE FRÉQUENCE

Publication
EP 2800201 A4 20150422 (EN)

Application
EP 11879066 A 20111230

Priority
CN 2011085003 W 20111230

Abstract (en)
[origin: EP2800201A1] The present invention provides a high-frequency filter, in order to ensure consistency of indexes of the filter. The high-frequency filter includes: at least one coaxial resonant cavity, at least one printed circuit board arranged at the coaxial resonant cavity, and at least one intracavity conductor on a side of the printed circuit board. A metal conductor layer for performing signal connection for a source and a load is laid on a surface of the printed circuit board, and a grounded metal conductor layer is laid on the other surface opposite to the surface laid with the metal conductor layer. One end of the intracavity conductor and the coaxial resonant cavity are both grounded. The intracavity conductor and the metal conductor layer for performing signal connection for the source and the load are coupled. With the high-frequency filter provided in the present invention, high consistency of the printed circuit board ensures batch consistency of indexes such as filter standing wave, phase, and group delay, and a volume of the filter can be reduced in comparison to an air strip line because of a relatively high dielectric constant of the printed circuit board.

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CPC (source: EP)
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Citation (search report)

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