

Abstract

Resonance Unit and Dielectric Filter

A dielectric resonance unit of an embodiment of the present disclosure includes a cavity, a supporting frame, a resonator, and a cover plate. The cavity is a sealed space. One surface of the cavity is a cover plate surface; the resonator is composed of a dielectric resonance block and a resonance bar; the resonator is mounted in the cavity; and the supporting frame is mounted at any position between the resonator and an inner wall of the cavity and is matched with any shape of the resonator and the cavity for connection and fixing. At least one hole for accommodating the resonance bar is provided on the dielectric resonance block. The resonance bar and the dielectric resonance block are non-electrically connected. In the embodiments of the present disclosure, the dielectric resonance block is provided with a through hole or a blind hole; a dielectric resonance bar or a metal resonance bar is put into the through hole and the blind hole to reduce the frequency, which effectively solves the relevant technical problems.

Figure 1