

ABSTRACT PIEZOELECTRIC RESONATOR

The invention concerns piezoelectric resonators which comprise a vibrating element mounted in a tight sealed housing and more particularly quartz resonators of small dimensions.

The piezoelectric resonator according to the invention comprises a tight sealed housing (1) of elongated shape which contains the vibrating element and which comprises a base (10) onto which a metal cap (9) is fixed and coupling conductors (11) which pass through the base (10) to connect the vibrating element to the exterior of the housing. According to the invention, the metal cap (9) is formed by a part in the shape of a rectangular parallelepiped which has in its lengthways direction a cylindrical axial blind hole. This shape allows the cap (9) to have a much better mechanical resistance than that of a conventional cylindrical cap and allows the resonator to be able to be easily mounted, in an automatic manner, onto a support.

The resonator according to the invention can be used to make frequency generators in particular for portable electronic equipment, in numerous fields (horology, computer science, telecommunications, medicine, etc.).

(FIGURE 1)