

ABSTRACT OF THE DISCLOSURE

A piezoelectric resonator has oscillating electrodes ~~on~~
~~both~~ disposed on opposite major surfaces of a piezoelectric
5 substrate, which oscillating electrodes are ~~formed~~ arranged
so as to extend from the respective ~~opposed~~ opposite ends of
the piezoelectric substrate to ~~the width directional~~ a
central portion of the piezoelectric substrate so that the
~~substrate width directional~~ central portions of the
10 oscillating electrodes overlap with each other, with the
oscillating substrate sandwiched between the oscillating
electrodes. Oscillation buffer materials are ~~formed~~ disposed
on the portions of ~~both opposed~~ the opposite major surfaces
of the piezoelectric substrate, which portions are displaced
15 by the third harmonic oscillation having a frequency which is
substantially equal to about three times that of the
resonance frequency of the piezoelectric substrate.

