

Abstract

A piezoelectric filter element 1 is supported by the periphery of a package body 21 of the surface mounting type such that a pair of input/output oscillating electrodes 11, 12 of the piezoelectric filter element 1 face the package body 21. The package body 21 has a shield electrode 30 which extends along a gap G between the pair of input/output oscillating electrodes 11, 12, which presents a grounding potential, and which is apart away by a predetermined distance from a piezoelectric substrate 10. The shield electrode 30 is formed as extending along the gap G and does not face, in a broad area, the pair of input/output oscillating electrodes 11, 12. This prevents floating capacitance from being generated between the shield electrode 30 and the pair of input/output oscillating electrodes 11, 12. Accordingly, even though the shield electrode 30 is brought to very close to the piezoelectric substrate 10, the shield electrode 30 prevents the pair of input/output oscillating electrodes 11, 12 from being electromagnetically coupled with each other.

Fig. 1