

Abstract

ACOUSTIC WAVE DEVICES

An acoustic wave device that has a better TCF and can improve a resonator Q or impedance ratio is provided. The acoustic wave device includes a substrate 11 containing 70 mass% or greater of silicon dioxide (SiO_2), a piezoelectric thin film 12 including LiTaO_3 crystal or LiNbO_3 crystal and disposed on the substrate 11, and an interdigital transducer electrode 13 disposed in contact with the piezoelectric thin film 12.

Selected figure: FIG. 1