ABSTRACT

A surface acoustic wave transducer is provided having three electrode fingers disposed as one reference segment (λ) on a piezoelectric substrate, each segment including an electrode finger 1 having a width W1, an electrode finger 2 having a width W2 with a gap of g1, and an electrode 3 having a width 3 with a gap g2. The electrode fingers 1 and 3 are set in-phase, and the electrode finger 2 is set in an opposite phase for driving. Further, W1 is set equal to W3, and g1 is set equal to g2. Thus, it is possible to provide a SAW transducer that has improved a shape factor at a high-pass side near a pass band of a primary-third order longitudinally coupled double mode SAW filter.