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SURFACE ACOUSTIC WAVE DEVICE

ABSTRACT OF THE DISCLOSURE

A surface acoustic wave device includes a piezoelectric substrate having a pair of substrate edges and an upper surface therebetween. The piezoelectric substrate has at least one inner edge which is in contact with a main region and extends from the upper surface toward a bottom surface of the piezoelectric substrate inside one of the substrate edges. An interdigital transducer is provided on the main region of the piezoelectric substrate such that a SH type surface acoustic wave excited by the interdigital transducer and having a wavelength of λ is reflected by the at least one inner edge. A distance L between the at least one inner edge and the corresponding one of the substrate edges is substantially equal to about 8λ or less.

Figure. 1