ABSTRACT OF THE DISCLOSURE

A surface acoustic wave resonator includes a piezoelectric substrate made of a langasite single crystal, and an interdigital transducer primarily made of Al and disposed on the piezoelectric substrate. The Euler angles (ϕ, θ, and φ) defining the orientation of the piezoelectric substrate are approximately 11° to 13°, 152° to 155°, and 37° ± 2°, respectively, or angles equivalent thereto, and the film thickness H of the interdigital transducer with respect to a wavelength λ of a surface acoustic wave excited on the piezoelectric substrate is in the region between about 0.005 to about 0.15.

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