ABSTRACT OF THE DISCLOSURE

A surface acoustic wave resonator includes a piezoelectric substrate and an interdigital transducer disposed on the piezoelectric substrate and made of a metal or an alloy having a higher specific weight than that of the piezoelectric material of the piezoelectric substrate so as to generate shear horizontal waves. The interdigital transducer includes a plurality of electrode fingers. A ratio of the electrode finger width relative to the electrode finger width plus the space between adjacent electrode fingers is about 0.55 to about 0.85.

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