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ABSTRACT

There is provided an end face reflection type surface wave resonator utilizing HS type surface waves capable of providing a plurality of resonance characteristics using a single element.

The surface wave resonator is a type wherein surface waves are reflected between two opposite end faces of a piezoelectric substrate and has IDT's that constitute first and second resonant units. The distance L between the two end faces is in a range expressed by $(\lambda_1/2) \times N_1 (\lambda_1/20)$ (N_1 is an integral number) where λ_1 represents the wavelength of a surface wave excited by the first resonant unit. The distance L is chosen to be out of a range expressed by $(\lambda_2/2) \times N_2 (\lambda_1/20)$ (N_2 is an integral number) where λ_2 represents the wavelength of a surface wave excited by the second resonant unit.

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