ABSTRACT OF THE DISCLOSURE

SURFACE-ACOUSTIC-WAVE RESONATOR FILTER

A three-electrode longitudinal-couple-type SAW resonator filter has an improved level of selectivity by effectively suppressing unwanted large spurious responses generated in a range higher than the pass band. A first ID electrode, a second ID electrode and a third ID electrode are disposed on a piezoelectric substrate. Reflectors are provided on one side of each of the second and third ID electrodes, respectively. A center distance L_1 between the most adjacent electrode fingers of the respective first and second ID electrodes is differentiated from the center distance L_2 between the most adjacent electrode fingers of the respective first and third ID electrodes. Further, the first ID electrode is weighted to more effectively suppress undesired spurious responses.

Fig. 1