

ABSTRACT

ACOUSTIC WAVE FILTER, DUPLEXER, AND MODULE

An acoustic wave filter includes: at least a parallel resonator, wherein at least one of the parallel resonator includes a piezoelectric substance, an IDT located on the piezoelectric substance, and reflectors located on the piezoelectric substance so as to sandwich the IDT, and a distance between a first electrode finger that is an electrode finger closest to the reflector among electrode fingers of the IDT and a second electrode finger that is an electrode finger closest to the IDT among electrode fingers of the reflector is less than $0.25(\lambda_{\text{IDT}} + \lambda_{\text{ref}})$ where a period of the electrode fingers of the IDT is λ_{IDT} and a period of the electrode fingers of the reflector is λ_{ref} .

FIG. 5