

HYBRID STRUCTURE FOR A SURFACE ACOUSTIC WAVE DEVICE

ABSTRACT

The invention relates to a hybrid structure (10) for a surface-acoustic-wave device comprising a useful layer (1) of piezoelectric material joined to a carrier substrate (5) having a thermal expansion coefficient lower than that of the useful layer (1); the hybrid structure (10) comprises an intermediate layer (4) located between the useful layer (1) and the carrier substrate (5), the intermediate layer (4) being a structured layer formed from at least two different materials comprising a plurality of periodic motifs (6, 7) in the plane of said intermediate layer (4).

Figure 1