

HYBRID STRUCTURE FOR SURFACE ACOUSTIC WAVE DEVICE

ABSTRACT

5 The invention relates to a hybrid structure (100) for
surface acoustic wave device comprising a useful layer (10) of
piezoelectric material having a first face (1) free and a
second face (2) arranged on a support substrate (20) whose
thermal expansion coefficient is lower than that of the useful
10 layer (10).

 The hybrid structure (100) comprises:

- a trapping layer (30) interposed between the useful
layer (10) and the support substrate (20);
- at least one functional interface (31) of determined
15 roughness between the useful layer (10) and the trapping layer
(30).

20 **Figure 1**