SUSPENDED FRAME BULK ACOUSTIC WAVE DEVICES

ABSTRACT

Aspects of this disclosure relate to bulk acoustic wave devices that have a piezoelectric layer between a first electrode and a second electrode and a suspended frame structure that is suspended over a gap. The gap can be between the first electrode and the piezoelectric layer or between the second electrode and the piezoelectric layer. The bulk acoustic wave devices can have an inner raised frame portion inside of the suspended frame. The gap can be disposed between portions of the first and second electrodes that extend past an end of the piezoelectric layer. A conductive material can extend through an opening in a passivation layer at a location directly above the gap.

Fig. 8