

HYBRID ACOUSTIC LC FILTER WITH HARMONIC SUPPRESSION

ABSTRACT

Aspects of this disclosure relate to hybrid acoustic LC filter with harmonic suppression. The hybrid acoustic LC filter includes a hybrid passive/acoustic and a non-acoustic LC filter cascaded with the hybrid passive/acoustic filter. The hybrid passive/acoustic filter can be configured to filter a radio frequency signal. The hybrid passive/acoustic filter can include acoustic resonators and a non-acoustic passive component. The non-acoustic LC filter can be configured to suppress a harmonic of the radio frequency signal. The non-acoustic LC filter can be a low pass filter or a harmonic notch filter, for example. Related multiplexers, wireless communication devices, and methods are disclosed.

[Figs. 23A – 23B]