

CIRCUITS AND METHODS RELATED TO SWITCHLESS CARRIER AGGREGATION IN RADIO-FREQUENCY RECEIVERS

ABSTRACT

Circuits and methods related to switchless carrier aggregation in radio-frequency receivers. In some embodiments, a carrier aggregation (CA) circuit can include a first filter configured to allow operation in a first frequency band, and a second filter configured to allow operation in a second frequency band. The CA circuit can further include a first signal path implemented between the first filter and an output node, with the first signal path including a plurality of amplification stages configured to amplify a first radio-frequency (RF) signal. The first signal path can be substantially free of switches. The CA circuit can further include a second signal path implemented between the second filter and the output node, with the second signal path including a plurality of amplification stages configured to amplify a second RF signal. The second signal path can be substantially free of switches.

Fig. 7