

STACKED DOUBLE BALANCED MIXER CIRCUIT**Abstract**

A stacked double balanced mixer (220) includes a double balanced mixer (320) and a first cross coupled differential mixer (330). The double balanced mixer (320) includes two input transistors (321, 322) and four cross coupled output transistors (323-326). The first cross coupled differential mixer (330) includes four cross coupled input/output transistors (331-334) and a second mixer output (227, 228). The four cross coupled input/output transistors (331-334) have first output terminal pairs DC coupled in series to second output terminal pairs of the four cross coupled output transistors (323-326). The stacked double balanced mixer (220) generates, at the second mixer output (227, 228), a second IF differential output signal having a second IF frequency at a difference of a radio frequency of a differential input signal and the sum of first and second LO frequencies, respectively, of first and second LO signals.

This Sheet Has Been Replaced

