

Abstracts

A New Compact 90° IF Combiner

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A new compact 90° IF combiner has been developed for wireless communication applications. Using a simple R-C network, a differential amplifier, and IF amplifiers, an IF combiner has been designed and fabricated. Over 30 dB of gain with phase difference better than 10° from 90° and amplitude balance 2.5 dB from 50 MHz to 250 MHz has been realized in a chip area of 1x 0.7 mm².

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