

# Abstracts

## A New Compact 90° IF Combiner

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*M.C. Tsai and Y. Tajima. "A New Compact 90° IF Combiner." 1994 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 94.1 (1994 [MCS]): 95-98.*

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 mm<sup>2</sup>.

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