

Abstracts

A Broadband Down Converter for 4- and 6-GHz Radio Systems

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This paper describes the design of a broadband down-converter to cover both 4- and 6-GHz common carrier bands. The broadband down-converter was tested as a replacement for the down-converter in both the MDR-2204 and MDR-2306 4- and 6-GHz radio systems. Excellent results have been observed in both 4- and 6-GHz radio systems. In threshold bit error rate tests, the broadband down-converter has 1.2-dB better performance than both 4-GHz (MDR-2204) and 6-GHz (MDR-2306) standard radio systems. In overload bit error rate tests, the broadband down-converter has 0.5-dB better performance.

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