

Abstracts

A wideband pHEMT downconverter MMIC for satellite communication systems (1998 [RFIC])

C.F. Campbell. "A wideband pHEMT downconverter MMIC for satellite communication systems (1998 [RFIC])." 1998 Radio Frequency Integrated Circuits (RFIC) Symposium 98. (1998 [RFIC]): 195-198.

This paper presents the design and performance of a broadband, low power, +3.0 V pHEMT Gilbert cell downconverter IC for satellite communication systems. The downconverter is fully integrated on to a single die and requires no external matching elements. The MMIC demonstrates 300-8000 MHz RF-LO bandwidth and 185-2085 MHz IF bandwidth.

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