

# Abstracts

## A silicon MOS MMIC upconverter for CATV applications

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*J. Birkeland and R. Sherman. "A silicon MOS MMIC upconverter for CATV applications." 1997 Radio Frequency Integrated Circuits (RFIC) Symposium 97. (1997 [RFIC]): 23-26.*

We present the design and performance of a new silicon MOS upconverter designed for use in CATV tuners and related components. The upconverter contains a double balanced mixer, a VCO, and a buffer amplifier. It converts frequencies in the CATV band from 50-860 MHz to an IF in the range of 1000-1250 MHz. The silicon upconverter is an economical alternative to GaAs parts, and shows comparable performance.

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