Abstracts

A K-Band Monolithic CPW Upconverter Utilizing a Source Mixing Concept (1995 [MCS])

M. Madihian, L. Desclos, K. Maruhashi, K. Onda and M. Kuzuhara. "A K-Band Monolithic CPW Upconverter Utilizing a Source Mixing Concept (1995 [MCS])." 1995 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 95.1 (1995 [MCS]): 163-166.

This paper concerns with the design consideration and performance of a CPW upconverter MMIC for K-band wireless system applications. The upconverter consists of an FET as a "3-port" mixing element, IF, LO, and RF matching networks, and an output filter. Including a 3dB pass-band insertion loss of the filter, the upconverter exhibits a maximum conversion gain of -6dB with a port-to-port isolation better than 20dB.

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