

Abstracts

New compact double balanced monolithic down-converter application to a single chip MMIC receiver for satellite equipment

*J.F. Villemazet, J. Dubouloy, M. Soulard, J.C. Cayrou, E. Husse, B. Cogo and J.L. Cazaux.
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This paper proposes a new compact double balanced mixer architecture suitable for a satellite repeater. The size of the proposed mixer has been divided by more than 5 compared to the previous generation currently used in the 14/12 GHz satellite repeaters. Thanks to its small size, about 1 mm/sup 2/, this mixer was integrated in a single chip MMIC receiver, including 5 different functions.

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