

Abstracts

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

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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 mm², this mixer was integrated in a single chip MMIC receiver, including 5 different functions.

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