

Abstracts

Integrated MMIC and MIC Components for Multichannel Ka-Band Receivers

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Integrated circuit (IC) modules have been developed for a multichannel Ka-band receiver. The modules include a MMIC-compatible mixer/IF amplifier and a MIC LO-distribution network. Four mixer/IF modules have been integrated with the LO network and other components to form a multichannel receiver prototype. This work is an important step toward the realization of a new generation of compact low-cost receivers for airborne and ground-based applications.

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