

Abstracts

Ultra-small MMIC mixers for K- and Ka-band communications

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We present the design and performance of two ultra-small MMIC double balanced mixers covering the 14 to 26 GHz band and the 18 to 32 GHz band, respectively. These passive mixers have a conversion loss of better than 8 dB with an LO to RF isolation of better than 30 dB. Both mixers are 0.48 mm² in die size, which is the smallest reported die size by a factor of 4 for mixers in these frequency ranges.

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