

Abstracts

A MM-wave monolithic Gilbert-cell mixer (2000 [RFIC])

A.W. Dearn and L.M. Devlin. "A MM-wave monolithic Gilbert-cell mixer (2000 [RFIC])." 2000 Radio Frequency Integrated Circuits (RFIC) Symposium 00. (2000 [RFIC]): 267-270.

This paper describes the application of the well-known Gilbert-cell mixer technique at MM-wave frequencies. A pseudomorphic HEMT monolithic design is described, in conjunction with a bondwire compensation technique, to produce low conversion loss (<4 dB) with low LO power at frequencies beyond 40 GHz.

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