

Abstracts

A mm-wave monolithic Gilbert-cell mixer (2000 Vol. I [MWSYM])

A.W. Dearn and L.M. Devlin. "A mm-wave monolithic Gilbert-cell mixer (2000 Vol. I [MWSYM])." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. I [MWSYM]): 401-404.

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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