

Abstracts

94 GHz Subharmonically Pumped MMIC Mixer

D. Blackwell, H.G. Henry, J.E. Degenford and M. Cohn. "94 GHz Subharmonically Pumped MMIC Mixer." 1991 MTT-S International Microwave Symposium Digest 91.3 (1991 Vol. III [MWSYM]): 1037-1039.

A 94 GHz subharmonically pumped antiparallel diode pair MMIC mixer with a short circuit sum frequency termination is described. Advantages of the mixer configuration include: 1) reduced conversion loss, 2) elimination of the need for an area consuming hybrid junction while retaining the separation of LO, RF and IF ports, 3) inherent LO noise sideband suppression, and 4) very small size and cost.

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