Abstracts

A balanced resistive mixer avoiding an IF balun

T.A. Bos and E. Camargo. "A balanced resistive mixer avoiding an IF balun." 2002 MTT-S International Microwave Symposium Digest 02.1 (2002 Vol. I [MWSYM]): 245-248 vol.1.

A balanced resistive mixer topology is proposed, that avoids the requirement of an external 180/spl deg/ IF hybrid. Instead of a balun, the IF signal is extracted once at the drain and once at the source of the balanced FETs. Thus, the IF signals can simply be combined. Operating as up- and downconverter, the fabricated MMIC mixer has a measured conversion loss of better than 10 dB over a frequency range from 29 to 39 GHz.

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