

Abstracts

Fully integrated Q-band MMIC transmitter and receiver chips using resistive PHEMT mixers (1998 [RFIC])

S. Nam, T. Gokdemir, A.H. Baree, I.D. Robertson, A.D. Plews, M.J. Howes, C.M. Snowden, K.G. Leckey, A.D. Patterson and J.A.C. Stewart. "Fully integrated Q-band MMIC transmitter and receiver chips using resistive PHEMT mixers (1998 [RFIC])." 1998 Radio Frequency Integrated Circuits (RFIC) Symposium 98. (1998 [RFIC]): 279-282.

This paper describes the design of resistive PHEMT mixers and their application in fully integrated Q-band millimetre-wave monolithic receiver and transmitter chips, where LO power is limited. The design method has been verified with excellent measured performances over the RF frequency range of 36.5-40 GHz.

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