# Abstracts

## A Monolithic 94 GHz Balanced Mixer (1990 Vol. I [MWSYM])

*B. Adelseck, J.M. Dieudonne, K.E. Schmegner, A. Colquhoun, G. Ebert and J. Selders. "A Monolithic 94 GHz Balanced Mixer (1990 Vol. I [MWSYM])." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. I [MWSYM]): 193-196.*

On the basis of a recently developed GaAs technology, which allows the realisation of millimeter wave Schottky mixer diodes and MESFETs on the same monolithic chip, different 94 GHz monolithic mixers have been fabricated. The Schottky diodes show cutoff frequencies of up to 2.3 THz, whereas MESFETs with typical Fmax (MAG=1) of about 90 GHz have been measured. The mixer chips show conversion losses of less than 8 dB combined with noise figures below 6 dB (DSB).

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