

# Abstracts

## GHz Band Monolithic Modem ICs (1987 Vol. I [MWSYM])

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*H. Kikuchi, S. Konaka and M. Umehira. "GHz Band Monolithic Modem ICs (1987 Vol. I [MWSYM])." 1987 MTT-S International Microwave Symposium Digest 87.1 (1987 Vol. I [MWSYM]): 487-490.*

A double balanced mixer IC, a 90° phase shifter IC and a carrier switch IC for high speed QPSK modems have been developed using monolithic lumped constant circuit techniques and advanced Si-bipolar process technology. These ICs are applicable to QPSK modems transmitting baseband signals in excess of 400 Mb/s at 1 GHz local frequency.

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