

A 94 GHz Monolithic Downconverter in a MESFET Technology

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A fully monolithic GaAs 94 GHz downconverter consisting of a single balanced diode mixer and a two-stage IF amplifier has been fabricated in a MESFET technology on a single chip. A conversion gain of 14.5 dB combined with a double side band noise figure of 6.5 dB has been achieved at 94 GHz. This is the first developed single chip MMIC 94 GHz downconverter in a MESFET technology.

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