

Abstracts

A 94 GHz-Band Low Noise Downconverter

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A 94 GHz-band low noise downconverter has been developed by combining an InP-HEMT low noise amplifier, a pseudomorphic HEMT mixer and a dielectric resonator oscillator, each fabricated using the planar circuit technology. The downconverter shows a noise figure of less than 4.9 dB and a conversion gain of greater than 11 dB.

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