

Millemetre Wave Receiver Components Using Packaged HEMTs

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A narrow band low noise amplifier (LNA) and a mixer at 30 GHz have been developed using packaged commercial HEMTs and waveguide matching circuits. The four-stage HEMT LNA provided 26 dB gain and 2.8 dB noise figure at 30 GHz. The HEMT mixer provided a conversion gain of 0.5 dB with 5 dB noise figure. The design features very simple construction and tuning.

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